

All Place value and ordering numbers

Name _____

Read, write and compare numbers up to 1,000.

Page 1 of 2

- 1** Write this number in numerals: four hundred and seventy-nine.

- 2** What is 10 more than 146?

- 3** Which number is the smallest?
Circle the answer.

210

131

322

- 4** Write this number in numerals: eight hundred and five.

- 5** What is 10 less than 572?

- 6** Which number is the smallest?
Circle the answer.

443

526

151

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Read, write and use numbers up to 10 million.

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Place value and ordering numbers: answers

All Read, write and compare numbers up to 1,000.

1 479

2 156 $146 + 10 = 156$

3 131

4 805

5 562 $572 - 10 = 562$

6 151

7 704

8 633 $533 + 100 = 633$

9 114

10 933

11 393 $293 + 100 = 393$

12 823

Most Compare numbers, and find the value of each digit.

1 6,698

2 52,325 $51,325 + 1,000 = 52,325$

3 50,000

4 93,279

5 79,533 $80,533 - 1,000 = 79,533$

6 3,000

7 13,029

8 81,258 $80,258 + 1,000 = 81,258$

9 30,000

10 39,087

11 6,479 $7,479 - 1,000 = 6,479$

12 100,000

Some Read, write and use numbers up to 10 million.

1 4,000,000

2 443,385 four hundred and forty-three thousand, three hundred and eighty-five is written 443,385

3 1,568,054 $1,000,000 + 500,000 + 60,000 + 8,000 + 50 + 4 = 1,568,054$

4 40,000

5 1,149,290 one million, one hundred and forty-nine thousand, two hundred and ninety is written 1,149,290

6 9,054,320 $9,000,000 + 50,000 + 4,000 + 300 + 20 = 9,054,320$

7 200,000

8 6,896,084 six million, eight hundred and ninety-six thousand and eighty-four is written 6,896,084

9 4,664,894 $4,000,000 + 600,000 + 60,000 + 4,000 + 800 + 90 + 4 = 4,664,894$

10 300,000

11 2,093,485 two million, ninety-three thousand, four hundred and eighty-five is written 2,093,485

12 22,350 $20,000 + 2,000 + 300 + 50 = 22,350$

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Read Roman numerals.

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1 Write the Roman numeral CCCLXXXII as a number.

2 Write the Roman numeral XVII as a number.

3 Write the Roman numeral DCLVI as a number.

4 Write the Roman numeral CXXII as a number.

5 Write the Roman numeral LXIV as a number.

6 Write the Roman numeral DCCCXCV as a number.

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Roman numerals: answers

All Read Roman numerals.

1 382 CCC=300 + LXXX=80 + II=2

2 17 X=10 + VII=7

3 656 DC=600 + L=50 + VI=6

4 122 C=100 + XX=20 + II=2

5 64 LX=60 + IV=4

6 895 DCCC=800 + XC=90 + V=5

7 19 X=10 + IX=9

8 145 C=100 + XL=40 + V=5

9 75 LXX=70 + V=5

10 999 CM=900 + XC=90 + IX=9

11 4

12 99 XC=90 + IX=9

Most Write numbers in Roman numerals.

1 DCLXXXVIII DC=600 + LXXX=80 + VIII=8

2 IX

3 DCCCXI DCCC=800 + X=10 + I=1

4 XC

5 CXXXIII C=100 + XXX=30 + III=3

6 CCCXIII CCC=300 + X=10 + III=3

7 XLIV XL=40 + IV=4

8 XXXIV XXX=30 + IV=4

9 CXLVIII C=100 + XL=40 + VIII=8

10 DCXI DC=600 + X=10 + I=1

11 DX D=500 + X=10

12 XXV XX=20 + V=5

Some Read years written in Roman numerals.

1 1538 M=1000 + D=500 + XXX=30 + VIII=8

2 1843 M=1000 + DCCC=800 + XL=40 + III=3

3 1110 M=1000 + C=100 + X=10

4 1383 M=1000 + CCC=300 + LXXX=80 + III=3

5 1224 M=1000 + CC=200 + XX=20 + IV=4

6 1836 M=1000 + DCCC=800 + XXX=30 + VI=6

7 1749 M=1000 + DCC=700 + XL=40 + IX=9

8 1581 M=1000 + D=500 + LXXX=80 + I=1

9 1963 M=1000 + CM=900 + LX=60 + III=3

10 1731 M=1000 + DCC=700 + XXX=30 + I=1

11 1398 M=1000 + CCC=300 + XC=90 + VIII=8

12 1648 M=1000 + DC=600 + XL=40 + VIII=8

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All Rounding and number lines

Name _____

Show numbers on a number line.

Page 1 of 2

- 1 Draw an arrow to show 40 on the number line.



- 2 Draw an arrow to show 500 on the number line.



- 3 Draw an arrow to show 50 on the number line.



- 4 Draw an arrow to show 650 on the number line.



- 5 Draw an arrow to show 8 on the number line.



- 6 Draw an arrow to show 700 on the number line.



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All Rounding and number lines (continued)

Show numbers on a number line.

Page 2 of 2

- 7** Draw an arrow to show 3 on the number line.



- 8** Draw an arrow to show 35 on the number line.



- 9** Draw an arrow to show 650 on the number line.



- 10** Draw an arrow to show 300 on the number line.



- 11** Draw an arrow to show 150 on the number line.



- 12** Draw an arrow to show 5,500 on the number line.



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Most Rounding and number lines

Name _____

Page 1 of 2

Round numbers to the nearest 10, 100 and 1,000.

- 1** Round 3,506 to the nearest 100.
Circle the answer.

3,400 3,500 3,600 3,510

4,000

- 2** Round 382,058 to the nearest 1,000.
Circle the answer.

381,000 382,000 383,000

382,100 380,000

- 3** Round 1,508 to the nearest 1,000.
Circle the answer.

1,000 2,000 3,000 1,500

- 4** Round 137,234 to the nearest 10.
Circle the answer.

137,220 137,234 137,200

137,240 137,230

- 5** Round 6,803 to the nearest 1,000.
Circle the answer.

6,800 8,000 7,000 10,000

6,000

- 6** Round 203,106 to the nearest 10.
Circle the answer.

203,120 203,100 203,110

203,106

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Most Rounding and number lines (continued)

Round numbers to the nearest 10, 100 and 1,000.

Page 2 of 2

- 7** Round 2,333 to the nearest 1,000.
Circle the answer.

1,000 3,000 2,000 2,300

- 8** Round 150,834 to the nearest 100,000.
Circle the answer.

100,000 200,000 300,000

150,000

- 9** Round 3,582 to the nearest 100.
Circle the answer.

3,580 3,600 3,700 3,500

4,000

- 10** Round 658,033 to the nearest 10,000.
Circle the answer.

658,000 670,000 660,000

700,000 650,000

- 11** Round 9,985 to the nearest 1,000.
Circle the answer.

9,985 10,000 9,000 11,000

- 12** Round 133,331 to the nearest 10,000.
Circle the answer.

133,000 120,000 140,000

130,000 100,000

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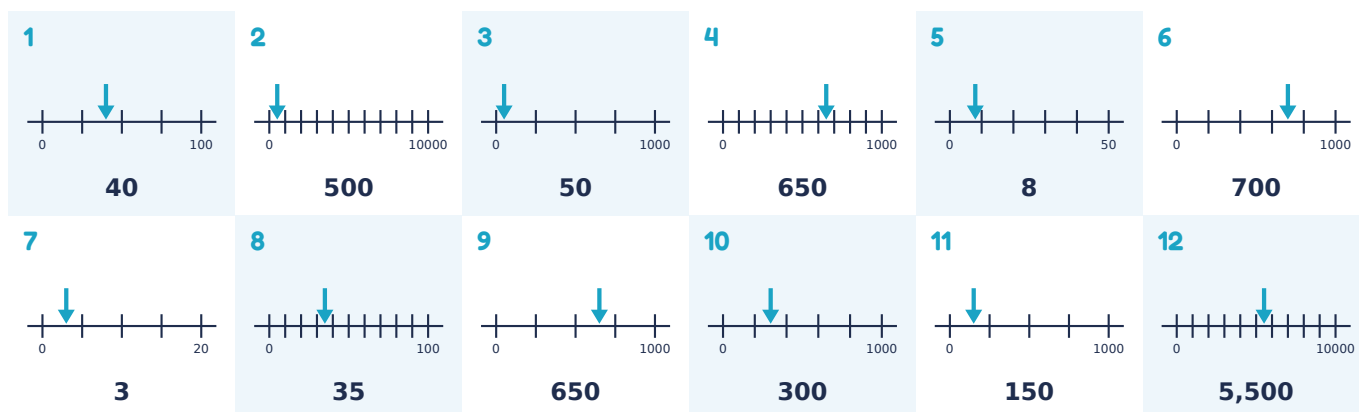
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Rounding and number lines: answers

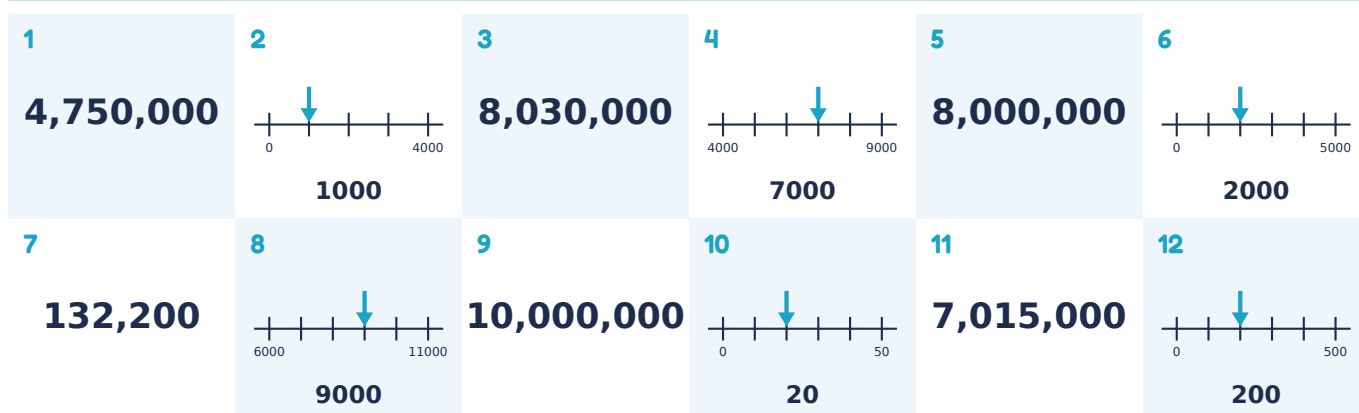
All Show numbers on a number line.



Most Round numbers to the nearest 10, 100 and 1,000.

1 3,500	2 382,000
3 2,000	4 137,230
5 7,000	6 203,110
7 2,000	8 200,000
9 3,600	10 660,000
11 10,000	12 130,000

Some Round any whole number to a required degree of accuracy.



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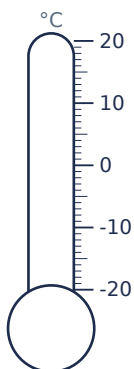
All Negative numbers

Name _____

Page 1 of 2

Show negative numbers on a number line and a thermometer.

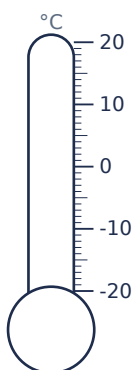
- 1 Shade the thermometer to show -1°C .



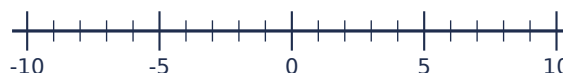
- 2 Draw an arrow to show -14 on the number line.



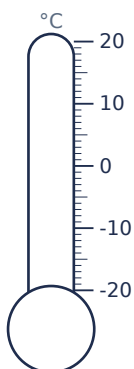
- 3 Shade the thermometer to show 12°C .



- 4 Draw an arrow to show 6 on the number line.



- 5 Shade the thermometer to show 8°C .



- 6 Draw an arrow to show -4 on the number line.



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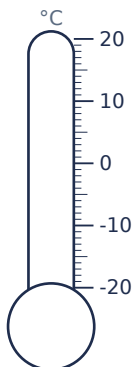
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All Negative numbers (continued)

Show negative numbers on a number line and a thermometer.

Page 2 of 2

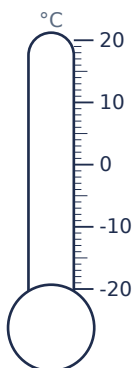
- 7 Shade the thermometer to show 1°C .



- 8 Draw an arrow to show -2 on the number line.



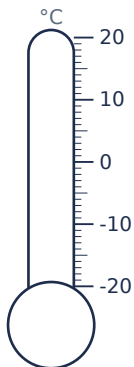
- 9 Shade the thermometer to show 17°C .



- 10 Draw an arrow to show -3 on the number line.



- 11 Shade the thermometer to show 7°C .



- 12 Draw an arrow to show -1 on the number line.



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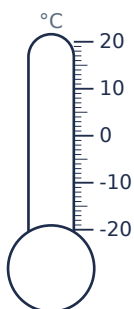
Most Negative numbers

Work out temperature changes across zero.

Name _____

Page 1 of 2

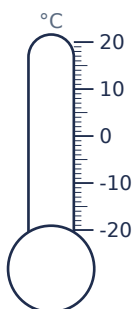
- 1 It is -1°C . The temperature rises by 2°C . Shade the thermometer to show the new temperature.



- 2 The temperature is -6°C . It rises by 7°C . Draw an arrow to show the new temperature.



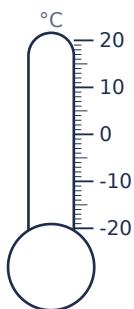
- 3 It is 11°C . The temperature rises by 9°C . Shade the thermometer to show the new temperature.



- 4 The temperature is 7°C . It falls by 12°C . Draw an arrow to show the new temperature.



- 5 It is 11°C . The temperature falls by 13°C . Shade the thermometer to show the new temperature.



- 6 The temperature is -8°C . It rises by 14°C . Draw an arrow to show the new temperature.



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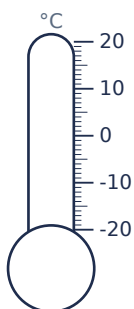
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Most Negative numbers (continued)

Work out temperature changes across zero.

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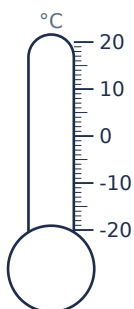
- 7** It is 7°C . The temperature rises by 6°C . Shade the thermometer to show the new temperature.



- 8** The temperature is 8°C . It falls by 16°C . Draw an arrow to show the new temperature.



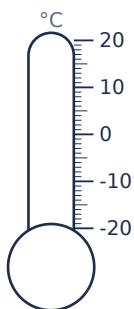
- 9** It is 1°C . The temperature rises by 13°C . Shade the thermometer to show the new temperature.



- 10** The temperature is 2°C . It falls by 6°C . Draw an arrow to show the new temperature.



- 11** It is -3°C . The temperature falls by 12°C . Shade the thermometer to show the new temperature.



- 12** The temperature is 6°C . It falls by 8°C . Draw an arrow to show the new temperature.



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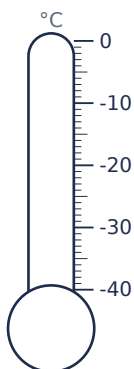
Some Negative numbers

Work with temperatures well below zero.

Name _____

Page 1 of 2

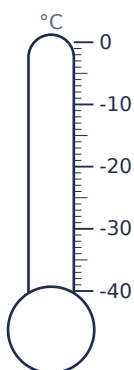
- 1 Shade the thermometer to show -21°C .



- 2 It is -21°C . The temperature rises by 2°C . Shade the thermometer to show the new temperature.



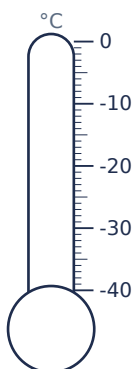
- 3 Shade the thermometer to show -8°C .



- 4 It is -9°C . The temperature rises by 9°C . Shade the thermometer to show the new temperature.



- 5 Shade the thermometer to show -12°C .



- 6 It is -9°C . The temperature falls by 13°C . Shade the thermometer to show the new temperature.



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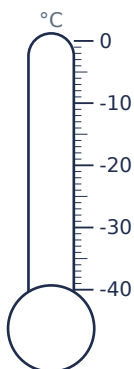
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Some Negative numbers (continued)

Work with temperatures well below zero.

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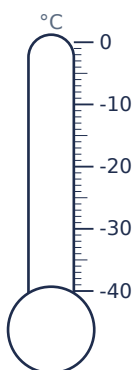
- 7 Shade the thermometer to show -19°C .



- 8 It is -13°C . The temperature rises by 6°C . Shade the thermometer to show the new temperature.



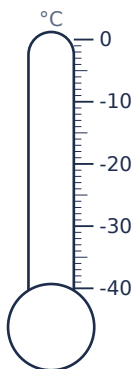
- 9 Shade the thermometer to show -3°C .



- 10 It is -19°C . The temperature rises by 13°C . Shade the thermometer to show the new temperature.



- 11 Shade the thermometer to show -13°C .



- 12 It is -23°C . The temperature falls by 12°C . Shade the thermometer to show the new temperature.



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Negative numbers: answers

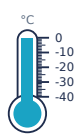
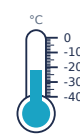
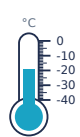
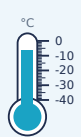
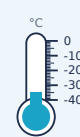
All Show negative numbers on a number line and a thermometer.

1  -1°C	2  -14	3  12°C	4  6	5  8°C	6  -4
7  1°C	8  -2	9  17°C	10  -3	11  7°C	12  -1

Most Work out temperature changes across zero.

1  1°C	2  1 °C	3  20°C	4  -5 °C	5  -2°C	6  6 °C
7  13°C	8  -8 °C	9  14°C	10  -4 °C	11  -15°C	12  -2 °C

Some Work with temperatures well below zero.

1  -21°C	2  -19°C	3  -8°C	4  0°C	5  -12°C	6  -22°C
7  -19°C	8  -7°C	9  -3°C	10  -6°C	11  -13°C	12  -35°C

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Number puzzles: answers

All Solve number problems with numbers up to 10,000.

1 443

2 13

3 115 $118 - 112 = 6$

4 70

5 206

6 3 $1 - 4 = -3$, so 3°C below zero

7 165

8 17

9 616 $621 - 611 = 10$

10 6800

11 504

12 48

Most Solve number problems with numbers up to 1,000,000.

1 16,000

2 164

3 707

4 48 $77 - 29 = 48$ m below

5 203

6 68,000

7 496

8 502,919

9 52,000

10 575,611

11 325

12 262

Some Solve problems with numbers up to 10 million.

1 **3,990,000** $3,980,007 + 8,000 = 3,988,007$, rounded to 3,990,000

2 **2,573,738** $7,772,760 - 5,199,022 = 2,573,738$

3 **2,100,000** $1,607,820 + 470,000 = 2,077,820$, rounded to 2,100,000

4 **7,588,203** $8,592,678 - 1,004,475 = 7,588,203$

5 **6,500,000** $5,758,284 + 730,000 = 6,488,284$, rounded to 6,500,000

6 **2,228,842** $3,067,428 - 838,586 = 2,228,842$

7 **2,000,000** $2,289,739 - 320,000 = 1,969,739$, rounded to 2,000,000

8 **3,647,247** $5,759,942 - 2,112,695 = 3,647,247$

9 **2,400,000** $1,910,261 + 500,000 = 2,410,261$, rounded to 2,400,000

10 **2,262,101** $5,093,106 - 2,831,005 = 2,262,101$

11 **2,350,000** $2,391,945 - 37,000 = 2,354,945$, rounded to 2,350,000

12 **4,058,123** $6,919,829 - 2,861,706 = 4,058,123$

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Some Column addition and subtraction

Name _____

Add and subtract numbers with 5 or more digits.

Page 1 of 2

1 $99,958 - 82,492 =$

2 $162,494 + 13,151 =$

3 $143,166 - 33,084 =$

4 $187,101 + 21,992 =$

5 $71,197 + 38,139 =$

6 $122,512 + 37,495 =$

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Column addition and subtraction: answers

All Add and subtract 3-digit numbers using columns.

1 83

2 936

3 1,504

4 521

5 622

6 113

7 254

8 46

9 191

10 16

11 249

12 1,014

Most Add and subtract 4-digit numbers using columns.

1 828

2 9,372

3 5,214

4 10,957

5 6,230

6 8,631

7 1,134

8 7,057

9 4,477

10 466

11 1,906

12 167

Some Add and subtract numbers with 5 or more digits.

1 17,466

2 175,645

3 110,082

4 209,093

5 109,336

6 160,007

7 23,937

8 126,777

9 72,313

10 9,843

11 40,221

12 3,520

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Most Estimating and checking

Name _____

Estimate by rounding to check an answer.

Page 1 of 2

- 1** Zoe worked out $27 \times 3 = 810$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

About right

Too big

- 2** Leo worked out $184 \times 20 = 368$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

- 3** Aisha worked out $6,678 + 8,747 = 15,425$. Which calculation checks this answer using the inverse?

Circle the answer.

6,678 – 8,747

15,425 + 8,747

15,425 – 8,747

- 4** Priya worked out $377 \times 26 = 98,020$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

- 5** Priya worked out $27 \times 8 = 216$. Which calculation checks this answer using the inverse?

Circle the answer.

27 ÷ 8

216 × 8

216 ÷ 8

- 6** Ravi worked out $216 \times 17 = 367$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

About right

Too big

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Most Estimating and checking (continued)

Estimate by rounding to check an answer.

Page 2 of 2

- 7** Tom worked out $27 \times 8 = 2,160$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

About right

Too big

- 8** Aisha worked out $198 \times 21 = 41,580$. Estimate to check — is this answer sensible?

Circle the answer.

About right

Too big

Too small

- 9** Sam worked out $46 \times 9 = 4,140$. Estimate to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

- 10** Noah worked out $223 \times 26 = 57,980$. Estimate to check — is this answer sensible?

Circle the answer.

Too big

About right

Too small

- 11** Estimate $1,687 + 8,478$ by rounding each number to the nearest 1,000.

--

- 12** Estimate $76,526 - 42,530$ by rounding each number to the nearest 1,000.

--

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Some Estimating and checking

Name _____

Choose the best estimate by rounding.

Page 1 of 2

- 1** Estimate $559 - 128$ by rounding each number to the nearest 100.

Circle the answer.

500

300

431

700

- 2** Leo worked out $12 \times 6 = 7$. Use estimation to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

- 3** Priya worked out $36 \times 8 = 2,880$. Use estimation to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

- 4** Ravi worked out $16 \times 5 = 8$. Use estimation to check — is this answer sensible?

Circle the answer.

Too small

About right

Too big

- 5** Tom worked out $26 \times 8 = 2,080$. Use estimation to check — is this answer sensible?

Circle the answer.

Too small

About right

Too big

- 6** Aisha worked out $14 \times 6 = 840$. Use estimation to check — is this answer sensible?

Circle the answer.

About right

Too big

Too small

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Some Estimating and checking (continued)

Page 2 of 2

Choose the best estimate by rounding.

- 7** Sam worked out $46 \times 9 = 4,140$. Use estimation to check — is this answer sensible?

Circle the answer.

Too small

Too big

About right

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 8** Estimate $1,708 + 9,482$ by rounding each number to the nearest 1,000.

Circle the answer.

10,000

9,000

11,000

11,190

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 9** Noah worked out $17 \times 8 = 1,360$. Use estimation to check — is this answer sensible?

Circle the answer.

Too big

About right

Too small

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 10** Estimate 17×78 by rounding each number to the nearest 10.

Circle the answer.

1,800

1,600

800

1,400

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 11** Zoe worked out $49 \times 9 = 441$. Use estimation to check — is this answer sensible?

Circle the answer.

Too big

Too small

About right

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 12** Lily worked out $44 \times 5 = 220$. Use estimation to check — is this answer sensible?

Circle the answer.

Too big

Too small

About right

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Estimating and checking: answers

All Find missing numbers and spot answers that are not sensible.

1 60	2 Too big
3 14	4 $1,557 - 885$
5 9	6 $112 \div 8$
7 709	8 About right
9 5	10 1,100
11 485	12 Too small

Most Estimate by rounding to check an answer.

1 Too big	2 Too small
3 $15,425 - 8,747$	4 Too big
5 $216 \div 8$	6 Too small
7 Too big	8 Too big
9 Too big	10 Too big
11 10,000	12 34,000

Some Choose the best estimate by rounding.

1 500	2 Too small
3 Too big	4 Too small
5 Too big	6 Too big
7 Too big	8 11,000
9 Too big	10 1,600
11 About right	12 About right

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Addition and subtraction word problems: answers

All Solve one- and two-step adding and subtracting problems.

1 380 $460 - 80 = 380$

2 £5.50 $£6.70 + £5.00 - £6.20 = £5.50$

3 208 $107 + 101 = 208$

4 362 $657 - 150 - 145 = 362$

5 528 $391 + 137 = 528$

6 561 $803 - 125 - 117 = 561$

7 60 $88 - 28 = 60$

8 726 $906 - 75 - 105 = 726$

9 105 $152 - 47 = 105$

10 £15.05 $£8.40 + £7.50 - £0.85 = £15.05$

11 102 $132 - 30 = 102$

12 £2.45 $£4.55 + £8.90 - £11.00 = £2.45$

Most Solve multi-step problems with whole numbers.

1 352 $336 + 234 - 55 - 163 = 352$

2 £16.56 $£61.70 + £40.10 - £15.05 - £70.19 = £16.56$

3 £44.16 $£79.35 + £34.15 - £11.40 - £57.94 = £44.16$

4 £29.73 $£90.60 + £19.10 - £10.10 - £69.87 = £29.73$

5 629 $740 + 291 - 206 - 196 = 629$

6 £24.98 $£44.70 + £20.15 - £9.10 - £30.77 = £24.98$

7 64 $663 + 198 - 248 - 549 = 64$

8 606 $851 + 239 - 79 - 405 = 606$

9 247 $527 + 134 - 225 - 189 = 247$

10 £19.30 $£50.65 + £5.50 - £4.30 - £32.55 = £19.30$

11 153 $587 + 200 - 106 - 528 = 153$

12 107 $442 + 108 - 167 - 276 = 107$

Some Solve multi-step problems, including money.

1 £426.60 $£75.65 + £375.45 - £24.50 = £426.60$

2 290 $1417 - 401 - 380 - 346 = 290$

3 876 $1773 - 341 - 304 - 252 = 876$

4 1220 $1996 - 191 - 281 - 304 = 1220$

5 £253.60 $£381.05 + £481.15 - £608.60 = £253.60$

6 411 $1097 - 201 - 231 - 254 = 411$

7 £148.50 $£79.80 + £231.70 - £163.00 = £148.50$

8 £711.15 $£462.15 + £372.90 - £123.90 = £711.15$

9 £115.40 $£227.00 + £175.30 - £286.90 = £115.40$

10 £480.10 $£285.05 + £424.80 - £229.75 = £480.10$

11 £78.65 $£213.70 + £199.45 - £334.50 = £78.65$

12 £67.50 $£80.00 + £102.05 - £114.55 = £67.50$

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Some

Name _____

Page 1 of 2

1 $0.575 \times 100 =$

2 $0.508 \times 1000 =$

3 $8.252 \times 100 =$

4 $7.358 \times 10 =$

5 $3.928 \times 10 =$

6 $7 \div 10 =$

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Multiplying and dividing by 10, 100 and 1,000 (continued)

Multiply and divide decimals by 10, 100 and 1,000.

Page 2 of 2

7 $59 \div 10 =$

8 $5.222 \times 10 =$

9 $46 \div 10 =$

10 $3.615 \times 100 =$

11 $2.384 \times 10 =$

12 $8.807 \times 10 =$

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Multiplying and dividing by 10, 100 and 1,000: answers

All Divide whole numbers by 10 and 100.

1 0.38	2 1.1
3 6.8	4 2
5 4.4	6 1.5
7 2.3	8 8.6
9 5	10 2.8
11 7.5	12 3.8

Most Multiply and divide by 10, 100 and 1,000.

1 672	2 8,000
3 7010	4 7,400
5 30	6 1,300
7 12.8	8 12
9 7	10 85
11 100	12 21

Some Multiply and divide decimals by 10, 100 and 1,000.

1 57.5	2 508
3 825.2	4 73.58
5 39.28	6 0.7
7 5.9	8 52.22
9 4.6	10 361.5
11 23.84	12 88.07

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Multiply numbers up to 4 digits by a 1- or 2-digit number.

Page 2 of 2

7 $135 \times 5 =$

8 $1369 \times 64 =$

9 $673 \times 92 =$

10 $3690 \times 58 =$

11 $1755 \times 6 =$

12 $1128 \times 57 =$

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Short and long multiplication: answers

All Multiply a 2- or 3-digit number by a 1-digit number (short multiplication).

1 2,395	2 1,608
3 1,408	4 2,625
5 1,864	6 69
7 1,305	8 532
9 3,000	10 1,089
11 249	12 176

Most Multiply numbers up to 4 digits by a 1- or 2-digit number.

1 9,492	2 48,180
3 28,060	4 55,932
5 22,652	6 47,448
7 675	8 87,616
9 61,916	10 214,020
11 10,530	12 64,296

Some Multiply a 4-digit number by a 2-digit number (long multiplication).

1 215,701	2 123,345
3 168,061	4 140,835
5 105,246	6 177,212
7 26,424	8 212,544
9 125,294	10 366,095
11 115,335	12 54,216

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Most Short and long division

Name _____

Divide up to 4 digits by 2 digits (long division).

Page 1 of 2

1 Work out $4,472 \div 52$ using long division.

2 Work out $1,120 \div 80$ using long division.

3 Work out $6,880 \div 80$ using long division.

4 Work out $2,130 \div 71$ using long division.

5 Work out $1,564 \div 92$ using long division.

6 Work out $9,030 \div 70$ using long division.

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Some Short and long division

Name

Divide and give the answer as a decimal.

Page 1 of 2

1 Work out $173 \div 4$ using short division. Give your answer as a decimal.

2 Work out $48 \div 5$ using short division. Give your answer as a decimal.

3 Work out $344 \div 5$ using short division. Give your answer as a decimal.

4 Work out $97 \div 5$ using short division. Give your answer as a decimal.

5 Work out $68 \div 5$ using short division. Give your answer as a decimal.

6 Work out $454 \div 5$ using short division. Give your answer as a decimal.

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Short and long division: answers

All Divide up to 4 digits by 1 digit (short division).

1 388 $2,328 \div 6 = 388$

2 28 $224 \div 8 = 28$

3 659 $5,272 \div 8 = 659$

4 132 $924 \div 7 = 132$

5 74 $666 \div 9 = 74$

6 896 $6,272 \div 7 = 896$

7 158 $790 \div 5 = 158$

8 154 $1,078 \div 7 = 154$

9 414 $3,312 \div 8 = 414$

10 147 $441 \div 3 = 147$

11 85 $595 \div 7 = 85$

12 958 $2,874 \div 3 = 958$

Most Divide up to 4 digits by 2 digits (long division).

1 86 $4,472 \div 52 = 86$

2 14 $1,120 \div 80 = 14$

3 86 $6,880 \div 80 = 86$

4 30 $2,130 \div 71 = 30$

5 17 $1,564 \div 92 = 17$

6 129 $9,030 \div 70 = 129$

7 270 $9,990 \div 37 = 270$

8 166 $6,142 \div 37 = 166$

9 166 $2,822 \div 17 = 166$

10 72 $5,112 \div 71 = 72$

11 45 $1,350 \div 30 = 45$

12 75 $3,825 \div 51 = 75$

Some Divide and give the answer as a decimal.

1 43.25 $173 \div 4 = 43.25$

2 9.6 $48 \div 5 = 9.6$

3 68.8 $344 \div 5 = 68.8$

4 19.4 $97 \div 5 = 19.4$

5 13.6 $68 \div 5 = 13.6$

6 90.8 $454 \div 5 = 90.8$

7 21.5 $43 \div 2 = 21.5$

8 21.75 $87 \div 4 = 21.75$

9 45.2 $226 \div 5 = 45.2$

10 99.5 $199 \div 2 = 99.5$

11 8.5 $17 \div 2 = 8.5$

12 60.5 $121 \div 2 = 60.5$

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Write the remainder as a fraction or a decimal.

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Remainders in real-life problems: answers

All Share equally, and find what is left over.

1 82 sheets $1148 \div 14 = 82$

2 1 cards $276 \div 11 = 25 \text{ r } 1$

3 77 apples $847 \div 11 = 77$

4 10 chairs $400 \div 13 = 30 \text{ r } 10$

5 13 sheets $182 \div 14 = 13$

6 11 chairs $3274 \div 13 = 251 \text{ r } 11$

7 280 sheets $3920 \div 14 = 280$

8 2 conkers $1410 \div 11 = 128 \text{ r } 2$

9 194 tickets $2522 \div 13 = 194$

10 4 flowers $676 \div 12 = 56 \text{ r } 4$

11 202 screws $2828 \div 14 = 202$

12 9 beads $1901 \div 11 = 172 \text{ r } 9$

Most Decide whether to round the answer up or down.

1 192 albums $3057 \div 16 = 191 \text{ r } 1$, so 192

2 419 bags $8819 \div 21 = 419 \text{ r } 20$, so 419

3 20 albums $468 \div 24 = 19 \text{ r } 12$, so 20

4 82 tables $1158 \div 14 = 82 \text{ r } 10$, so 82

5 273 crates $6547 \div 24 = 272 \text{ r } 19$, so 273

6 80 packs $1616 \div 20 = 80 \text{ r } 16$, so 80

7 69 albums $1435 \div 21 = 68 \text{ r } 7$, so 69

8 174 bags $4182 \div 24 = 174 \text{ r } 6$, so 174

9 194 albums $3489 \div 18 = 193 \text{ r } 15$, so 194

10 77 tables $851 \div 11 = 77 \text{ r } 4$, so 77

11 33 crates $976 \div 30 = 32 \text{ r } 16$, so 33

12 461 packs $5539 \div 12 = 461 \text{ r } 7$, so 461

Some Write the remainder as a fraction or a decimal.

1 4 $\frac{3}{5}$ bars $138 \div 30 = 4 \text{ r } 18$; $\frac{18}{30} = \frac{3}{5}$

2 30.6 litres $918 \div 30 = 30 \text{ r } 18$; $\frac{18}{30} = 0.6$

3 9 $\frac{3}{10}$ baguettes $186 \div 20 = 9 \text{ r } 6$; $\frac{6}{20} = \frac{3}{10}$

4 219.3 kg $4386 \div 20 = 219 \text{ r } 6$; $\frac{6}{20} = 0.3$

5 10 $\frac{3}{10}$ pies $515 \div 50 = 10 \text{ r } 15$; $\frac{15}{50} = \frac{3}{10}$

6 159.3 metres $7965 \div 50 = 159 \text{ r } 15$; $\frac{15}{50} = 0.3$

7 11 $\frac{3}{5}$ bars $348 \div 30 = 11 \text{ r } 18$; $\frac{18}{30} = \frac{3}{5}$

8 148.1 kg $2962 \div 20 = 148 \text{ r } 2$; $\frac{2}{20} = 0.1$

9 12 $\frac{1}{10}$ bars $726 \div 60 = 12 \text{ r } 6$; $\frac{6}{60} = \frac{1}{10}$

10 161.1 litres $9666 \div 60 = 161 \text{ r } 6$; $\frac{6}{60} = 0.1$

11 11 $\frac{4}{5}$ pies $236 \div 20 = 11 \text{ r } 16$; $\frac{16}{20} = \frac{4}{5}$

12 312.2 ml $6244 \div 20 = 312 \text{ r } 4$; $\frac{4}{20} = 0.2$

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All Factors, multiples and primes

Name _____

Find factors of a number.

Page 1 of 2

1 Circle all the factors of 24.

Circle each one.

8

14

15

4

9

10

2

2 Circle all the factors of 36.

Circle each one.

10

3

15

6

4

8

7

5

3 Circle all the factors of 30.

Circle each one.

15

4

12

6

7

3

14

4 Circle all the factors of 40.

Circle each one.

8

14

6

15

3

4

9

2

5 Circle all the factors of 18.

Circle each one.

15

7

8

9

6

3

4

14

6 Circle all the factors of 12.

Circle each one.

4

8

6

10

14

7

12

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All Factors, multiples and primes (continued)

Find factors of a number.

Page 2 of 2

7 Circle all the factors of 16.

Circle each one.

2

9

8

6

3

4

7

5

8 Circle all the factors of 20.

Circle each one.

4

2

7

9

5

12

14

3

10

9 Circle all the factors of 12.

Circle each one.

8

10

6

12

2

3

9

7

5

10 Circle all the factors of 36.

Circle each one.

5

7

14

6

2

15

3

8

12

11 Circle all the factors of 24.

Circle each one.

14

10

4

2

9

15

12

7

12 Circle all the factors of 30.

Circle each one.

14

7

15

2

10

9

8

4

3

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Most Factors, multiples and primes

Name _____

Find multiples, and spot composite numbers.

Page 1 of 2

- 1** Circle all the multiples of 6.
Circle each one.

40 44 34 4 12 24

30

- 2** Circle all the composite numbers.
Circle each one.

3 8 11 17 14 19

12

- 3** Circle all the common factors of 12 and 28.
Circle each one.

4 2 6 7 5 12

- 4** Circle all the prime factors of 12.
Circle each one.

5 2 3 6 4

- 5** Circle all the factors of 24.
Circle each one.

6 7 9 2 15 8

5

- 6** Circle all the composite numbers.
Circle each one.

3 7 19 9 5 17

14 21

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Most Factors, multiples and primes (continued)

Find multiples, and spot composite numbers.

Page 2 of 2

- 7** Circle all the multiples of 6.
Circle each one.

52 20 54 6 24 25

5 30 44

- 8** Circle all the composite numbers.
Circle each one.

6 8 13 10 11 16

17 5 2

- 9** Circle all the factors of 72.
Circle each one.

7 3 5 8 10 20

4 15

- 10** Circle all the composite numbers.
Circle each one.

3 14 10 4 5 11

13

- 11** Circle all the factors of 36.
Circle each one.

20 9 6 5 2 7

4 15

- 12** Circle all the prime factors of 36.
Circle each one.

11 4 2 3 6

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Some Factors, multiples and primes

Name _____

Find primes, and common factors and multiples.

Page 1 of 2

- 1** Circle all the prime numbers.
Circle each one.

15

4

14

3

11

7

18

- 2** Which of these is a common multiple of 5 and 2?

Circle the answer.

10

7

13

17

- 3** Is 23 a prime number?
Circle the answer.

Yes

No

- 4** Which of these is a common factor of 42 and 18?

Circle the answer.

11

7

3

8

- 5** Is 73 a prime number?
Circle the answer.

Yes

No

- 6** Which of these is a common factor of 8 and 40?

Circle the answer.

7

6

3

2

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Factors, multiples and primes: answers

All Find factors of a number.

1 2, 4, 8

2 3, 4, 6

3 3, 6, 15

4 2, 4, 8

5 3, 6, 9

6 4, 6, 12

7 2, 4, 8

8 2, 4, 5, 10

9 2, 3, 6, 12

10 2, 3, 6, 12

11 2, 4, 12

12 2, 3, 10, 15

Most Find multiples, and spot composite numbers.

1 12, 24, 30

2 8, 12, 14

3 2, 4

4 2, 3

5 2, 6, 8

6 9, 14, 21

7 6, 24, 30, 54

8 6, 8, 10, 16

9 3, 4, 8

10 4, 10, 14

11 2, 4, 6, 9

12 2, 3

Some Find primes, and common factors and multiples.

1 3, 7, 11

2 10

3 Yes

4 3

5 Yes

6 2

7 Yes

8 3

9 Yes

10 7

11 Yes

12 40

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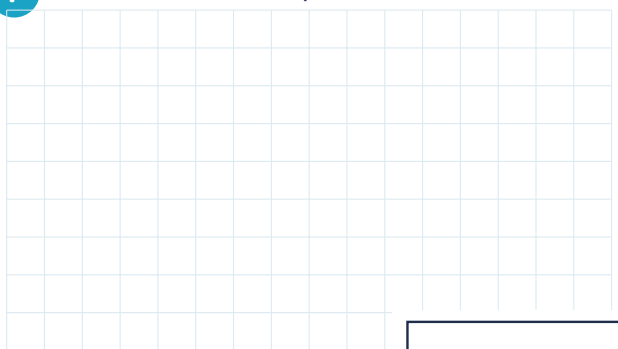
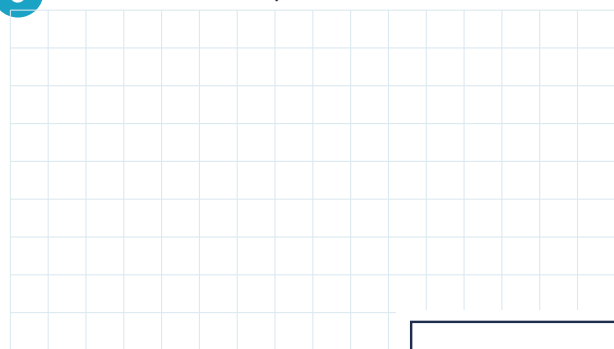
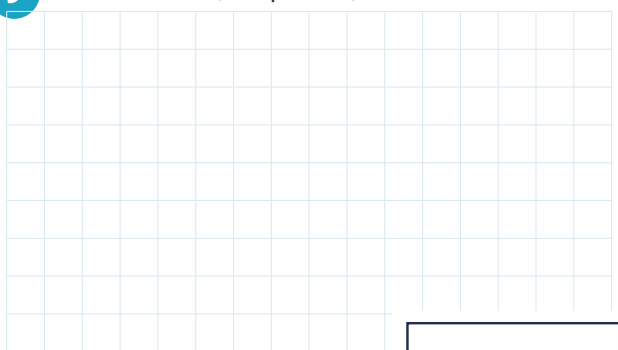
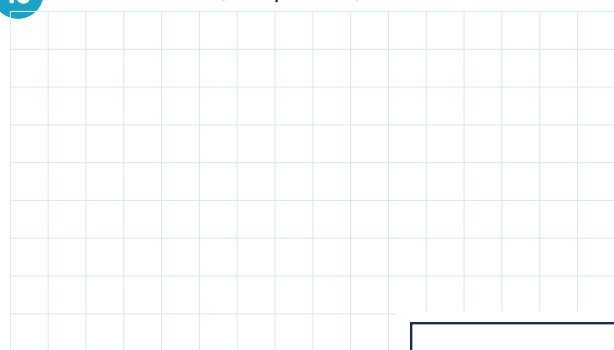
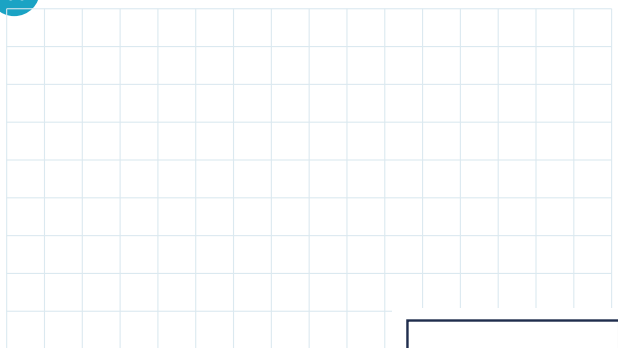
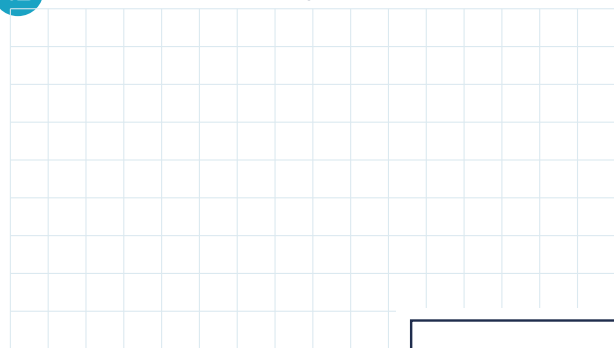


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All Squares, cubes and multiples (continued)

Work out square and cube numbers.

Page 2 of 2

7 Work out 12^2 (12 squared).
8 Work out 2^2 (2 squared).
9 Work out 9^2 (9 squared).
10 Work out 4^2 (4 squared).
11 Work out 3^3 (3 cubed).
12 Work out 10^2 (10 squared).
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Most Squares, cubes and multiples (continued)

Solve problems with arrays, squares and cubes.

Page 2 of 2

- 7** 16 shells are arranged in equal rows with 4 shells in each row. How many rows are there?

- 8** 40 shells are arranged in equal rows with 8 shells in each row. How many rows are there?

- 9** 32 shells are arranged in equal rows with 4 shells in each row. How many rows are there?

- 10** 28 shells are arranged in equal rows with 7 shells in each row. How many rows are there?

- 11** 12 shells are arranged in equal rows with 3 shells in each row. How many rows are there?

- 12** 56 shells are arranged in equal rows with 8 shells in each row. How many rows are there?

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Squares, cubes and multiples: answers

All Work out square and cube numbers.

1 36 $6^2 = 6 \times 6 = 36$

2 8 $2^3 = 2 \times 2 \times 2 = 8$

3 125 $5^3 = 5 \times 5 \times 5 = 125$

4 216 $6^3 = 6 \times 6 \times 6 = 216$

5 9 $3^2 = 3 \times 3 = 9$

6 64 $4^3 = 4 \times 4 \times 4 = 64$

7 144 $12^2 = 12 \times 12 = 144$

8 4 $2^2 = 2 \times 2 = 4$

9 81 $9^2 = 9 \times 9 = 81$

10 16 $4^2 = 4 \times 4 = 16$

11 27 $3^3 = 3 \times 3 \times 3 = 27$

12 100 $10^2 = 10 \times 10 = 100$

Most Solve problems with arrays, squares and cubes.

1 125 $5 \times 5 \times 5 = 125$ (a cube number)

2 6 $18 \div 3 = 6$ (3 is a factor of 18)

3 8 $48 \div 6 = 8$ (6 is a factor of 48)

4 4 $20 \div 5 = 4$ (5 is a factor of 20)

5 25 $5 \times 5 = 25$ (a square number)

6 9 $72 \div 8 = 9$ (8 is a factor of 72)

7 4 $16 \div 4 = 4$ (4 is a factor of 16)

8 5 $40 \div 8 = 5$ (8 is a factor of 40)

9 8 $32 \div 4 = 8$ (4 is a factor of 32)

10 4 $28 \div 7 = 4$ (7 is a factor of 28)

11 4 $12 \div 3 = 4$ (3 is a factor of 12)

12 7 $56 \div 8 = 7$ (8 is a factor of 56)

Some Use common multiples to solve problems.

1 12

2 10

3 20

4 14

5 6

6 24

7 20

8 12

9 6

10 20

11 15

12 14

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Multiplication and division word problems: answers

All Solve simple multiplying and sharing problems.

1 5 $15 \div 3 = 5$

2 21 $3 \times 7 = 21$

3 48 $6 \times 8 = 48$

4 35 $7 \times 5 = 35$ m

5 4 $28 \div 7 = 4$

6 63 $9 \times 7 = 63$

7 54 $9 \times 6 = 54$

8 5 $25 \div 5 = 5$

9 5 $40 \div 8 = 5$

10 9 $3 \times 3 = 9$

11 12 $4 \times 3 = 12$ m

12 18 $3 \times 6 = 18$

Most Solve two-step problems and find missing numbers.

1 40 $5 \times (3 + 5) = 40$

2 31 $49 - (3 \times 6) = 31$

3 15 $3 \times 5 = 15$ (each hat with each scarf)

4 £20.00 $(5 \times 2) + (5 \times 2) = £20$

5 30 $5 \times 6 = 30$ (each filling with each bread)

6 £34.00 $(3 \times 6) + (4 \times 4) = £34$

7 60 $5 \times (7 + 5) = 60$

8 73 $9 \times 9 = 81$, so $\square = 81 - 8 = 73$

9 23 $3 \times 7 + 2 = 23$

10 £13.00 $(2 \times 2) + (3 \times 3) = £13$

11 18 $3 \times 6 = 18$ (each top with each pair of shorts)

12 19 $68 - (7 \times 7) = 19$

Some Solve problems using all four operations.

1 183 $5 \times 31 + 28 = 183$

2 21 $26 \div 2 = 13$, then $13 + 8 = 21$

3 £7.00 $£63 \div 3 = £21$, then $£21 - £14 = £7$

4 £15.00 $£240 \div 6 = £40$, then $£40 - £25 = £15$

5 154 $3 \times 49 + 7 = 154$

6 £22.00 $£105 \div 3 = £35$, then $£35 - £13 = £22$

7 16 $32 \div 4 = 8$, then $8 + 8 = 16$

8 50 $7 \times 8 - 6 = 50$

9 283 $8 \times 31 + 35 = 283$

10 343 $7 \times 44 + 35 = 343$

11 92 $11 \times 9 - 7 = 92$

12 121 $17 \times 9 - 32 = 121$

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All Fractions of amounts and scaling

Name _____

Page 1 of 2

Solve problems with simple fractions.

- 1** A tray bake is cut into 8 equal squares. Sam eats $\frac{5}{8}$ and Jo eats $\frac{1}{8}$. What fraction is left? $\square/8$.

- 2** A cake is cut into 4 equal slices. Ella eats $\frac{2}{4}$ and Kofi eats $\frac{1}{4}$. What fraction of the cake is that altogether?

- 3** A jug holds 1 litre. You pour out 4 tenths (0.4 litres). How much is left, in litres?

 litres

- 4** A garden is cut into 6 equal beds. Ella waters $\frac{3}{6}$ and Kofi waters $\frac{2}{6}$. What fraction of the garden is that altogether?

- 5** A loaf is cut into 10 equal slices. Sam eats $\frac{4}{10}$ and Jo eats $\frac{4}{10}$. What fraction is left? $\square/10$.

- 6** A pie is cut into 5 equal pieces. Ryan eats $\frac{3}{5}$ and Zara eats $\frac{1}{5}$. What fraction of the pie is that altogether?

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Fractions of amounts and scaling: answers

All Solve problems with simple fractions.

1 2

2 $\frac{3}{4}$

3 0.6 litres $1 - 0.4 = 0.6$ litres

4 $\frac{5}{6}$

5 2

6 $\frac{4}{5}$

7 0.5 litres $1 - 0.5 = 0.5$ litres

8 $\frac{6}{8}$

9 0.8 litres $1 - 0.2 = 0.8$ litres

10 $\frac{7}{10}$

11 0.4 litres $1 - 0.6 = 0.4$ litres

12 $\frac{6}{10}$

Most Find a fraction of an amount.

1 4 $\frac{2}{5}$ of 10 = $(10 \div 5) \times 2 = 4$

2 6 $\frac{1}{8}$ of 48 = $(48 \div 8) \times 1 = 6$

3 40 $\frac{5}{8}$ of 64 = $(64 \div 8) \times 5 = 40$

4 16 $\frac{2}{5}$ of 40 = $(40 \div 5) \times 2 = 16$

5 45 $\frac{5}{6}$ of 54 = $(54 \div 6) \times 5 = 45$

6 7 $\frac{1}{4}$ of 28 = $(28 \div 4) \times 1 = 7$

7 9 $\frac{3}{8}$ of 24 = $(24 \div 8) \times 3 = 9$

8 6 $\frac{3}{4}$ of 8 = $(8 \div 4) \times 3 = 6$

9 81 $\frac{9}{10}$ of 90 = $(90 \div 10) \times 9 = 81$

10 2 $\frac{1}{2}$ of 4 = $(4 \div 2) \times 1 = 2$

11 10 $\frac{2}{3}$ of 15 = $(15 \div 3) \times 2 = 10$

12 24 $\frac{3}{4}$ of 32 = $(32 \div 4) \times 3 = 24$

Some Solve scaling, rate and fraction problems.

1 18 $6 \times 3 = 18$ litres

2 189 $6 \div 2 = 3, \times 63 \text{ g} = 189 \text{ g}$

3 £36.00 $\pounds 8 \div 2 = \pounds 4$ each, $\times 9 = \pounds 36$

4 £72.00 $\pounds 24 \div 3 = \pounds 8$ each, $\times 9 = \pounds 72$

5 138 $6 \div 2 = 3, \times 46 \text{ g} = 138 \text{ g}$

6 £90.00 $\pounds 45 \div 5 = \pounds 9$ each, $\times 10 = \pounds 90$

7 32 $4 \times 8 = 32$ litres

8 £48.00 $\pounds 16 \div 2 = \pounds 8$ each, $\times 6 = \pounds 48$

9 3 $6 \div 2 = 3, \times 1 = 3$

10 21 $3 \times 7 = 21$ litres

11 12 $16 \div 4 = 4, \times 3 = 12$

12 £40.00 $\pounds 25 \div 5 = \pounds 5$ each, $\times 8 = \pounds 40$

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All Equivalent fractions

Name _____

Page 1 of 2

Shade a bar to show an equivalent fraction.

- 1** This bar has 6 equal parts. Shade it to show a fraction equal to $\frac{2}{3}$.

--	--	--	--	--	--

- 2** This bar has 12 equal parts. Shade it to show a fraction equal to $\frac{3}{4}$.

--	--	--	--	--	--	--	--	--	--	--	--

- 3** This bar has 8 equal parts. Shade it to show a fraction equal to $\frac{3}{4}$.

--	--	--	--	--	--	--	--

- 4** This bar has 10 equal parts. Shade it to show a fraction equal to $\frac{1}{5}$.

--	--	--	--	--	--	--	--	--	--

- 5** This bar has 4 equal parts. Shade it to show a fraction equal to $\frac{1}{2}$.

--	--	--	--

- 6** This bar has 12 equal parts. Shade it to show a fraction equal to $\frac{1}{6}$.

--	--	--	--	--	--	--	--	--	--	--	--

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All Equivalent fractions (continued)

Shade a bar to show an equivalent fraction.

Page 2 of 2

- 7** This bar has 9 equal parts. Shade it to show a fraction equal to $\frac{1}{3}$.

--	--	--	--	--	--	--	--	--

- 8** This bar has 8 equal parts. Shade it to show a fraction equal to $\frac{1}{4}$.

--	--	--	--	--	--	--	--

- 9** This bar has 6 equal parts. Shade it to show a fraction equal to $\frac{1}{3}$.

--	--	--	--	--	--

- 10** This bar has 8 equal parts. Shade it to show a fraction equal to $\frac{1}{2}$.

--	--	--	--	--	--	--	--

- 11** This bar has 6 equal parts. Shade it to show a fraction equal to $\frac{1}{2}$.

--	--	--	--	--	--

- 12** This bar has 9 equal parts. Shade it to show a fraction equal to $\frac{2}{3}$.

--	--	--	--	--	--	--	--	--

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Most Equivalent fractions

Name _____

Page 1 of 2

Find equivalent fractions by shading and by writing them.

- 1** This bar has 6 equal parts. Shade it to show a fraction equal to $\frac{1}{3}$.

--	--	--	--	--	--

- 2** Write the fraction equal to $\frac{1}{10}$ with a denominator of 100.

--

- 3** This bar has 15 equal parts. Shade it to show a fraction equal to $\frac{1}{5}$.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 4** Write the fraction equal to $\frac{1}{2}$ with a denominator of 4.

--

- 5** This bar has 20 equal parts. Shade it to show a fraction equal to $\frac{3}{5}$.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 6** Write the fraction equal to $\frac{2}{5}$ with a denominator of 10.

--

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Most Equivalent fractions (continued)

Find equivalent fractions by shading and by writing them.

Page 2 of 2

- 7** This bar has 8 equal parts. Shade it to show a fraction equal to $\frac{1}{4}$.

--	--	--	--	--	--	--	--

- 8** Write the fraction equal to $\frac{1}{6}$ with a denominator of 12.

- 9** This bar has 12 equal parts. Shade it to show a fraction equal to $\frac{1}{3}$.

--	--	--	--	--	--	--	--	--	--	--	--

- 10** Write the fraction equal to $\frac{1}{3}$ with a denominator of 6.

- 11** This bar has 10 equal parts. Shade it to show a fraction equal to $\frac{2}{5}$.

--	--	--	--	--	--	--	--	--	--

- 12** Write the fraction equal to $\frac{3}{5}$ with a denominator of 10.

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Some Equivalent fractions

Name _____

Page 1 of 2

Shade equivalent fractions with twelfths and more.

- 1 Shade a fraction equal to $\frac{3}{4}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 2 Shade a fraction equal to $\frac{3}{5}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 3 Shade a fraction equal to $\frac{1}{3}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 4 Shade a fraction equal to $\frac{1}{6}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 5 Shade a fraction equal to $\frac{1}{5}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 6 Shade a fraction equal to $\frac{5}{6}$ on the bar.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Some Equivalent fractions (continued)

Shade equivalent fractions with twelfths and more.

Page 2 of 2

- 7 Shade a fraction equal to $\frac{2}{5}$ on the bar.



- 8 Shade a fraction equal to $\frac{1}{4}$ on the bar.



- 9 Shade a fraction equal to $\frac{1}{2}$ on the bar.



- 10 Shade a fraction equal to $\frac{1}{4}$ on the bar.



- 11 Shade a fraction equal to $\frac{5}{6}$ on the bar.



- 12 Shade a fraction equal to $\frac{1}{2}$ on the bar.

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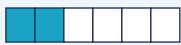
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Equivalent fractions: answers

All Shade a bar to show an equivalent fraction.

1  $\frac{4}{6}$	2  $\frac{9}{12}$	3  $\frac{6}{8}$	4  $\frac{2}{10}$	5  $\frac{2}{4}$	6  $\frac{2}{12}$
7  $\frac{3}{9}$	8  $\frac{2}{8}$	9  $\frac{2}{6}$	10  $\frac{4}{8}$	11  $\frac{3}{6}$	12  $\frac{6}{9}$

Most Find equivalent fractions by shading and by writing them.

1  $\frac{2}{6}$	2 $\frac{10}{100}$	3  $\frac{3}{15}$	4 $\frac{2}{4}$	5  $\frac{12}{20}$	6 $\frac{4}{10}$
7  $\frac{2}{8}$	8 $\frac{2}{12}$	9  $\frac{4}{12}$	10 $\frac{2}{6}$	11  $\frac{4}{10}$	12 $\frac{6}{10}$

Some Shade equivalent fractions with twelfths and more.

1  $\frac{9}{12}$	2  $\frac{9}{15}$	3  $\frac{6}{18}$	4  $\frac{2}{12}$	5  $\frac{3}{15}$	6  $\frac{10}{12}$
7  $\frac{6}{15}$	8  $\frac{3}{12}$	9  $\frac{6}{12}$	10  $\frac{4}{16}$	11  $\frac{15}{18}$	12  $\frac{8}{16}$

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$$\frac{1}{8}$$
$$\frac{1}{3}$$
$$\frac{1}{6}$$
$$\frac{2}{3}$$
$$\frac{1}{3}$$
$$\frac{3}{6}$$
$$\frac{4}{6}$$
$$\frac{1}{6}$$
 $\frac{1}{5}$
$$\frac{3}{5}$$
$$\frac{7}{10}$$

31

$$\frac{2}{4}$$
$$\frac{3}{4}$$

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$$\frac{1}{3}$$
$$\frac{2}{3}$$
$$\frac{1}{8}$$
$$\frac{1}{4}$$
$$\frac{1}{10}$$
 $\frac{4}{5}$ $\frac{2}{5}$ $\frac{1}{6}$
$$\frac{1}{8}$$
 $\frac{1}{5}$ $\frac{1}{5}$
$$\frac{1}{8}$$
$$\frac{1}{2}$$
$$\frac{1}{8}$$
$$\frac{1}{6}$$

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Some Comparing and ordering fractions

Name _____

Compare fractions, including fractions greater than 1.

Page 1 of 2

1 Which is greater?

Circle the answer.

$$\frac{8}{5}$$

$$\frac{1}{3}$$

2 Which is the greatest?

Circle the answer.

$$\frac{3}{2}$$

$$\frac{10}{5}$$

$$\frac{6}{5}$$

3 Which is greater?

Circle the answer.

$$\frac{5}{3}$$

$$\frac{5}{5}$$

4 Which is the greatest?

Circle the answer.

$$\frac{5}{5}$$

$$\frac{12}{6}$$

$$\frac{3}{2}$$

5 Which is greater?

Circle the answer.

$$\frac{3}{2}$$

$$\frac{4}{2}$$

6 Which is the greatest?

Circle the answer.

$$\frac{5}{3}$$

$$\frac{4}{2}$$

$$\frac{6}{6}$$

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Comparing and ordering fractions: answers

All Compare unit fractions and simple fractions.

1 $\frac{1}{3}$

2 $\frac{1}{3}$

3 $\frac{4}{6}$

4 $\frac{3}{5}$

5 $\frac{2}{10}$

6 $\frac{2}{4}$

7 $\frac{1}{3}$

8 $\frac{1}{4}$

9 $\frac{2}{5}$

10 $\frac{1}{5}$

11 $\frac{1}{8}$

12 $\frac{1}{8}$

Most Compare fractions with different denominators.

1 $\frac{2}{3}$

2 $\frac{2}{15}$

3 $\frac{3}{4}$

4 $\frac{8}{12}$

5 $\frac{4}{10}$

6 $\frac{2}{4}$

7 $\frac{3}{8}$

8 $\frac{1}{3}$

9 $\frac{3}{5}$

10 $\frac{6}{15}$

11 $\frac{1}{8}$

12 $\frac{1}{9}$

Some Compare fractions, including fractions greater than 1.

1 $\frac{8}{5}$

2 $\frac{10}{5}$

3 $\frac{5}{3}$

4 $\frac{12}{6}$

5 $\frac{4}{2}$

6 $\frac{4}{2}$

7 $\frac{3}{2}$

8 $\frac{2}{2}$

9 $\frac{9}{5}$

10 $\frac{5}{3}$

11 $\frac{8}{5}$

12 $\frac{3}{2}$

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Add and subtract fractions with different denominators.

6 $\frac{2}{3} - \frac{1}{5} =$

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Adding and subtracting fractions: answers

All Add fractions with the same denominator.

1 $\frac{2}{6}$

2 $\frac{4}{9}$

3 $\frac{3}{8}$

4 $\frac{6}{7}$

5 $\frac{6}{10}$

6 $\frac{4}{5}$

7 $\frac{2}{3}$

8 $\frac{2}{4}$

9 $\frac{5}{9}$

10 $\frac{3}{9}$

11 $\frac{7}{8}$

12 $\frac{1}{5}$

Most Add and subtract fractions with the same denominator.

1 $\frac{5}{6}$

2 $\frac{6}{7}$

3 $1\frac{11}{9}$ (or $1\frac{2}{9}$)

4 $\frac{1}{2}$

5 $\frac{4}{9}$

6 $1\frac{4}{10}$ (or $1\frac{4}{10}$)

7 $\frac{8}{8}$

8 $\frac{4}{2}$ (or 2)

9 $\frac{4}{5}$

10 $\frac{5}{10}$

11 $\frac{2}{3}$

12 $1\frac{10}{9}$ (or $1\frac{1}{9}$)

Some Add and subtract fractions with different denominators.

1 $1\frac{12}{9}$ (or $1\frac{3}{9}$)

2 $\frac{1}{2}$

3 $\frac{5}{6}$

4 $\frac{1}{10}$

5 $\frac{3}{4}$

6 $\frac{7}{15}$

7 $\frac{1}{15}$

8 $\frac{1}{2}$

9 $\frac{7}{15}$

10 $\frac{7}{8}$

11 1

12 0

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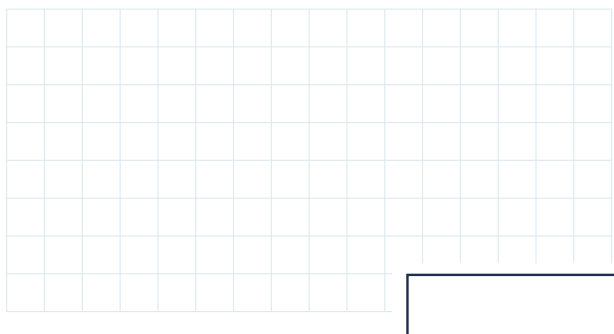
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All Multiplying and dividing fractions (continued)

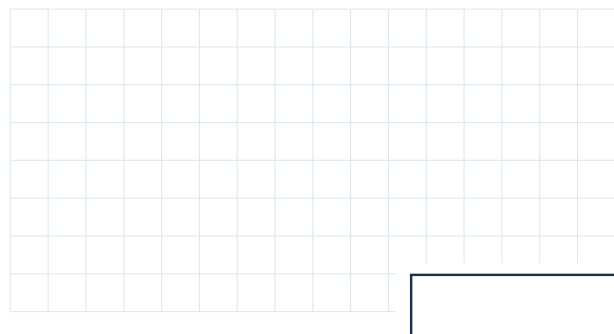
Multiply a fraction by a whole number.

Page 2 of 2

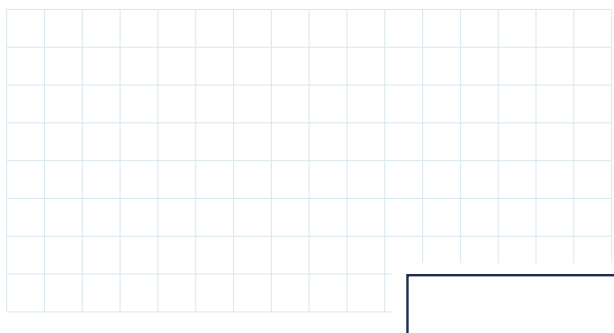
7 $2\frac{3}{5} \times 2 =$



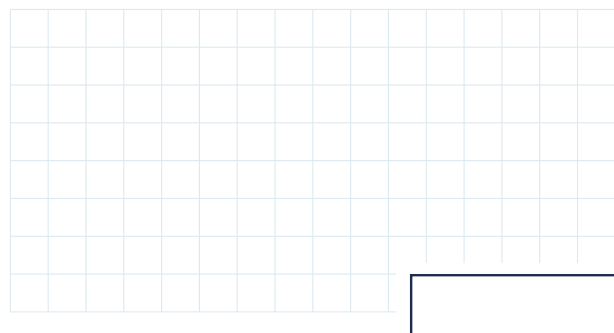
8 $\frac{4}{6} \times 3 =$



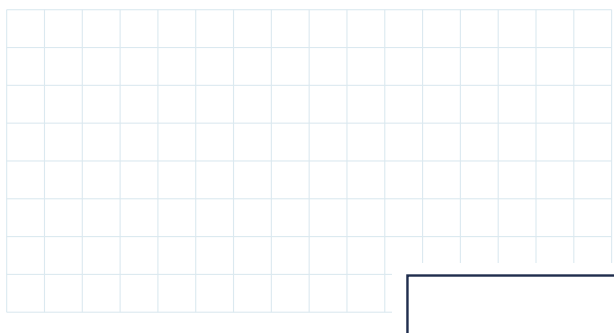
9 $\frac{1}{2} \times 2 =$



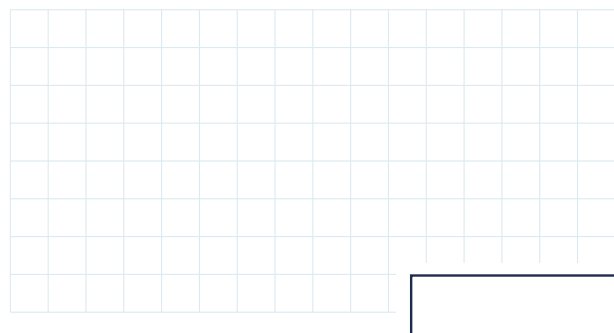
10 $1\frac{2}{6} \times 2 =$



11 $\frac{1}{2} \times 5 =$



12 $3\frac{1}{3} \times 2 =$


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Most Multiplying and dividing fractions

Name _____

Page 1 of 2

Multiply two fractions and simplify.

1 $\frac{1}{4} \times \frac{2}{3} =$

Give your answer in its simplest form.

2 $\frac{4}{5} \times \frac{2}{5} =$

Give your answer in its simplest form.

3 $\frac{2}{5} \times \frac{1}{2} =$

Give your answer in its simplest form.

4 $\frac{4}{5} \times \frac{4}{6} =$

Give your answer in its simplest form.

5 $\frac{2}{3} \times \frac{1}{2} =$

Give your answer in its simplest form.

6 $\frac{3}{4} \times \frac{1}{2} =$

Give your answer in its simplest form.

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Most Multiplying and dividing fractions (continued)

Page 2 of 2

7 $\frac{1}{5} \times \frac{3}{4} =$

Give your answer in its simplest form.

8 $\frac{1}{2} \times \frac{1}{2} =$

Give your answer in its simplest form.

9 $\frac{5}{6} \times \frac{2}{6} =$

Give your answer in its simplest form.

10 $\frac{2}{4} \times \frac{3}{4} =$

Give your answer in its simplest form.

11 $\frac{3}{6} \times \frac{1}{2} =$

Give your answer in its simplest form.

12 $\frac{3}{4} \times \frac{2}{3} =$

Give your answer in its simplest form.

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Some Multiplying and dividing fractions

Name _____

Page 1 of 2

Divide a fraction by a whole number and simplify.

1 $\frac{2}{4} \div 2 =$

Give your answer in its simplest form.

2 $\frac{1}{6} \div 4 =$

Give your answer in its simplest form.

3 $\frac{1}{5} \div 3 =$

Give your answer in its simplest form.

4 $\frac{2}{4} \div 5 =$

Give your answer in its simplest form.

5 $\frac{1}{3} \div 4 =$

Give your answer in its simplest form.

6 $\frac{2}{5} \div 2 =$

Give your answer in its simplest form.

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Multiplying and dividing fractions: answers

All Multiply a fraction by a whole number.

1 $\frac{6}{4}$

2 $\frac{8}{6}$

3 $\frac{68}{6}$

4 $\frac{36}{5}$

5 $\frac{75}{6}$

6 $\frac{10}{3}$

7 $\frac{26}{5}$

8 $\frac{12}{6}$

9 $\frac{2}{2}$

10 $\frac{16}{6}$

11 $\frac{5}{2}$

12 $\frac{20}{3}$

Most Multiply two fractions and simplify.

1 $\frac{1}{6}$

2 $\frac{8}{25}$

3 $\frac{1}{5}$

4 $\frac{8}{15}$

5 $\frac{1}{3}$

6 $\frac{3}{8}$

7 $\frac{3}{20}$

8 $\frac{1}{4}$

9 $\frac{5}{18}$

10 $\frac{3}{8}$

11 $\frac{1}{4}$

12 $\frac{1}{2}$

Some Divide a fraction by a whole number and simplify.

1 $\frac{1}{4}$

2 $\frac{1}{24}$

3 $\frac{1}{15}$

4 $\frac{1}{10}$

5 $\frac{1}{12}$

6 $\frac{1}{5}$

7 $\frac{1}{6}$

8 $\frac{1}{6}$

9 $\frac{1}{4}$

10 $\frac{3}{25}$

11 $\frac{4}{25}$

12 $\frac{1}{20}$

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Some Tenths, hundredths and thousandths

Name _____

Work with thousandths.

Page 1 of 2

1 How many thousandths is 0.04 equal to?
□/1000.

2 Write 4 tenths as thousandths — how many thousandths?

3 How many thousandths is 0.1 equal to?
□/1000.

4 Write 0.02 as a number of thousandths.

5 How many thousandths is 0.6 equal to?
□/1000.

6 Write 0.65 as a number of thousandths.

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Tenths, hundredths and thousandths: answers

All Count in tenths and hundredths.

1 0.3
2 $5\frac{1}{100}$
3 0.1 $1 \div 10 = 0.1$ (one tenth of 1)

4 $11\frac{4}{100}$
5 0.6 $6 \div 10 = 0.6$ (one tenth of 6)

6 $12\frac{9}{100}$
7 0.2 $2 \div 10 = 0.2$ (one tenth of 2)

8 $\frac{3}{100}$
9 1.3
10 $8\frac{4}{100}$
11 0.9 $9 \div 10 = 0.9$ (one tenth of 9)

12 $1\frac{6}{100}$

Most Write tenths and hundredths as decimals.

1 0.38
2 0.4
3 1
4 0.02
5 0.65
6 0.07
7 0.13
8 0.2
9 0.39
10 0.15
11 0.89
12 0.41

Some Work with thousandths.

1 40
2 400
3 100
4 20
5 600
6 650
7 20
8 200
9 90
10 70
11 0.15
12 900

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Decimal calculations and problems: answers

All Solve money and measure problems with decimals.

1 £1.86 $£6.66 - £4.80 = £1.86$

2 £18.35 $5 \times £3.67 = £18.35$

3 £2.61 $£10 - £7.39 = £2.61$

4 £14.19 $3 \times £4.73 = £14.19$

5 £2.94 $£8.82 \div 3 = £2.94$

6 £2.45 $£12.25 \div 5 = £2.45$

7 £6.96 $2 \times £3.48 = £6.96$

8 £4.50 $£6.55 - £2.05 = £4.50$

9 £9.92 $4 \times £2.48 = £9.92$

10 £1.91 $£7.64 \div 4 = £1.91$

11 £5.05 $5 \times £1.01 = £5.05$

12 £8.64 $4 \times £2.16 = £8.64$

Most Add and subtract decimals with up to 3 places.

1 4.059 m $0.995 + 3.064 = 4.059 \text{ m}$

2 12.12 m $4 \times 3.03 = 12.12 \text{ m}$

3 9.45 m $3 \times 3.15 = 9.45 \text{ m}$

4 14.54 m $4 \times 3.635 = 14.54 \text{ m}$

5 10.4 m $4 \times 2.6 = 10.4 \text{ m}$

6 16.216 m $4 \times 4.054 = 16.216 \text{ m}$

7 5.692 m $3.532 + 2.16 = 5.692 \text{ m}$

8 9.596 m $4 \times 2.399 = 9.596 \text{ m}$

9 6.617 m $3.609 + 3.008 = 6.617 \text{ m}$

10 2.118 m $5.754 - 3.636 = 2.118 \text{ m}$

11 7.698 m $2 \times 3.849 = 7.698 \text{ m}$

12 12.246 m $3 \times 4.082 = 12.246 \text{ m}$

Some Multiply decimals, and divide to give decimal answers.

1 0.25

2 49.2 $443 \div 9 = 49.222... \approx 49.2 \text{ (1 d.p.)}$

3 £1.67 $£10 \div 6 = £1.67 \text{ (nearest penny)}$

4 1.6

5 14.62 $190 \div 13 = 14.6154... \approx 14.62 \text{ (2 d.p.)}$

6 £26.33 $£79 \div 3 = £26.33 \text{ (nearest penny)}$

7 5.6

8 57.42 $689 \div 12 = 57.4167... \approx 57.42 \text{ (2 d.p.)}$

9 £23.33 $£70 \div 3 = £23.33 \text{ (nearest penny)}$

10 0.14

11 86.86 $608 \div 7 = 86.8571... \approx 86.86 \text{ (2 d.p.)}$

12 £4.29 $£30 \div 7 = £4.29 \text{ (nearest penny)}$

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$$\frac{3}{4}$$
$$\frac{3}{10}$$
$$\frac{1}{2}$$
$$\frac{1}{5}$$

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Percentages: answers

All Understand per cent as parts of 100.

1 38

2 33%

3 51%

4 24%

5 80%

6 67%

7 13

8 42%

9 39

10 86%

11 54%

12 16%

Most Match fractions, decimals and percentages.

1 40%

2 0.65

3 30

4 0.35

5 70%

6 $\frac{3}{10}$

7 50%

8 25%

9 80%

10 $\frac{3}{4}$

11 20%

12 1%

Some Find percentages of amounts.

1 8

2 50% of 360

3 80% of 300

4 15% of 200

5 55% of 160

6 40% of 240

7 85% of 60

8 70% of 120

9 35% of 60

10 95% of 60

11 14

12 1

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All Ratio, scale and sharing

Name _____

Use a ratio to find a missing amount.

Page 1 of 2

- 1** The ratio of red beads to blue beads is 4:5. There are 28 red beads. How many blue beads are there?

Circle the answer.

28

30

35

40

- 2** 2 pencils cost 18 pence. How much do 8 pencils cost, in pence?

Circle the answer.

90

54

72

144

- 3** A recipe for 5 people uses 170 grams of sugar. How many grams are needed for 30 people?

Circle the answer.

5100

850

1020

170

- 4** 2 apples cost 4 pence. How much do 6 apples cost, in pence?

Circle the answer.

12

24

8

16

- 5** The ratio of roses to tulips is 1:2. There are 4 roses. How many tulips are there?

Circle the answer.

4

10

8

6

- 6** A recipe for 2 people uses 120 grams of oats. How many grams are needed for 8 people?

Circle the answer.

480

240

600

120

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All Ratio, scale and sharing (continued)

Use a ratio to find a missing amount.

Page 2 of 2

- 7** 6 pencils cost 30 pence. How much do 36 pencils cost, in pence?

Circle the answer.

180

30

1080

150

- 8** The ratio of vans to cars is 4:3. There are 36 vans. How many cars are there?

Circle the answer.

108

30

24

27

- 9** A recipe for 2 people uses 150 grams of rice. How many grams are needed for 12 people?

Circle the answer.

1800

900

750

300

- 10** 4 apples cost 20 pence. How much do 12 apples cost, in pence?

Circle the answer.

40

240

60

80

- 11** The ratio of blue beads to red beads is 2:1. There are 8 blue beads. How many red beads are there?

Circle the answer.

3

8

5

4

- 12** A recipe for 2 people uses 60 grams of butter. How many grams are needed for 12 people?

Circle the answer.

360

420

720

120

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Most Ratio, scale and sharing (continued)

Find and use scale factors.

Page 2 of 2

- 7** Two rectangles are similar. The small one is 2 cm by 6 cm. The larger one is 6 cm wide. How tall is it, in cm?

Circle the answer.

18

36

9

6

- 8** Two rectangles are similar. The small one is 6 cm by 8 cm. The larger one is 18 cm wide. How tall is it, in cm?

Circle the answer.

144

11

18

24

- 9** Two rectangles are similar. The small one is 4 cm by 4 cm. The larger one is 16 cm wide. How tall is it, in cm?

Circle the answer.

4

64

16

8

- 10** A line is 3 cm long. It is enlarged by scale factor 3. How long is it now, in cm?

Circle the answer.

9

6

12

3

- 11** A line is 9 cm long. It is enlarged by scale factor 5. How long is it now, in cm?

Circle the answer.

36

54

9

45

- 12** A line is 6 cm long. It is enlarged by scale factor 2. How long is it now, in cm?

Circle the answer.

12

18

6

8

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Some Ratio, scale and sharing

Name _____

Page 1 of 2

Share an amount in a given ratio.

- 1** Two friends share some beads in the ratio 1:2. The smaller share is 2. How many beads are there altogether?

Circle the answer.

8

4

6

2

- 2** 35 conkers are shared in the ratio 2:3. How many more are in the larger share than the smaller share?

Circle the answer.

21

35

14

7

- 3** 110 sweets are shared in the ratio 5:6. How many more are in the larger share than the smaller share?

Circle the answer.

50

10

60

110

- 4** Two friends share some stickers in the ratio 1:2. The smaller share is 11. How many stickers are there altogether?

Circle the answer.

11

22

33

44

- 5** Two friends share some marbles in the ratio 4:7. The smaller share is 48. How many marbles are there altogether?

Circle the answer.

132

84

12

120

- 6** 70 stickers are shared in the ratio 2:5. How many are in the larger share?

Circle the answer.

20

50

70

40

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Some Ratio, scale and sharing (continued)

Share an amount in a given ratio.

Page 2 of 2

- 7** Two friends share some conkers in the ratio 3:8. The smaller share is 15. How many conkers are there altogether?

Circle the answer.

40

55

60

50

- 8** £42 is shared between two people in the ratio 3:4. What is the larger share, in pounds?

Circle the answer.

6

18

30

24

- 9** £12 is shared between two people in the ratio 1:5. What is the smaller share, in pounds?

Circle the answer.

10

4

12

2

- 10** 50 conkers are shared in the ratio 3:7. How many are in the smaller share?

Circle the answer.

15

50

35

5

- 11** 21 stickers are shared in the ratio 1:2. How many are in the larger share?

Circle the answer.

14

21

18

7

- 12** Two friends share some marbles in the ratio 5:6. The larger share is 12. How many marbles are there altogether?

Circle the answer.

20

22

24

10

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Ratio, scale and sharing: answers

All Use a ratio to find a missing amount.

1 35 $28 \div 4 = 7, 7 \times 5 = 35$

2 72 $18 \div 2 = 9, 9 \times 8 = 72$

3 1020 $170 \div 5 = 34, 34 \times 30 = 1,020$

4 12 $4 \div 2 = 2, 2 \times 6 = 12$

5 8 $4 \div 1 = 4, 4 \times 2 = 8$

6 480 $120 \div 2 = 60, 60 \times 8 = 480$

7 180 $30 \div 6 = 5, 5 \times 36 = 180$

8 27 $36 \div 4 = 9, 9 \times 3 = 27$

9 900 $150 \div 2 = 75, 75 \times 12 = 900$

10 60 $20 \div 4 = 5, 5 \times 12 = 60$

11 4 $8 \div 2 = 4, 4 \times 1 = 4$

12 360 $60 \div 2 = 30, 30 \times 12 = 360$

Most Find and use scale factors.

1 2 $10 \div 5 = 2$

2 24 $8 \div 2 = 4, 6 \times 4 = 24$

3 12 $3 \times 4 = 12$

4 21 $15 \div 5 = 3, 7 \times 3 = 21$

5 16 $8 \div 2 = 4, 4 \times 4 = 16$

6 5 $25 \div 5 = 5$

7 18 $6 \div 2 = 3, 6 \times 3 = 18$

8 24 $18 \div 6 = 3, 8 \times 3 = 24$

9 16 $16 \div 4 = 4, 4 \times 4 = 16$

10 9 $3 \times 3 = 9$

11 45 $9 \times 5 = 45$

12 12 $6 \times 2 = 12$

Some Share an amount in a given ratio.

1 6 $2 \div 1 = 2, 2 \times 3 = 6$

2 7 $35 \div 5 = 7, 7 \times 1 = 7$

3 10 $110 \div 11 = 10, 10 \times 1 = 10$

4 33 $11 \div 1 = 11, 11 \times 3 = 33$

5 132 $48 \div 4 = 12, 12 \times 11 = 132$

6 50 $70 \div 7 = 10, 10 \times 5 = 50$

7 55 $15 \div 3 = 5, 5 \times 11 = 55$

8 24 $42 \div 7 = 6, 6 \times 4 = 24$

9 2 $12 \div 6 = 2, 2 \times 1 = 2$

10 15 $50 \div 10 = 5, 5 \times 3 = 15$

11 14 $21 \div 3 = 7, 7 \times 2 = 14$

12 22

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All Sequences

Fill in missing numbers in a counting pattern.

Name _____

Page 1 of 2

1 Write the missing numbers in the boxes.



2 Write the missing numbers in the boxes.



3 Write the missing numbers in the boxes.



4 Write the missing numbers in the boxes.



5 Write the missing numbers in the boxes.



6 Write the missing numbers in the boxes.



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All Sequences (continued)

Fill in missing numbers in a counting pattern.

Page 2 of 2

7 Write the missing numbers in the boxes.



8 Write the missing numbers in the boxes.



9 Write the missing numbers in the boxes.



10 Write the missing numbers in the boxes.



11 Write the missing numbers in the boxes.



12 Write the missing numbers in the boxes.



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Some Sequences

Find the rule and fill in missing terms.

Name _____

Page 1 of 2

1 Write the missing numbers in the boxes.



2 Write the missing numbers in the boxes.



3 Write the missing numbers in the boxes.



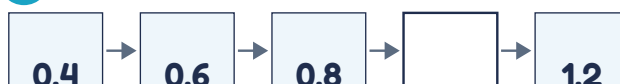
4 Write the missing numbers in the boxes.



5 Write the missing numbers in the boxes.



6 Write the missing numbers in the boxes.



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Some Sequences (continued)

Find the rule and fill in missing terms.

Page 2 of 2

7 Write the missing numbers in the boxes.



8 Write the missing numbers in the boxes.



9 Write the missing numbers in the boxes.



10 Write the missing numbers in the boxes.



11 Write the missing numbers in the boxes.



12 Write the missing numbers in the boxes.



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Sequences: answers

All Fill in missing numbers in a counting pattern.

1 10, 14 Add 2 each time

2 19 Add 6 each time

3 20 Add 8 each time

4 19, 23 Add 4 each time

5 30, 38 Add 8 each time

6 22 Add 6 each time

7 42, 51 Add 9 each time

8 15 Add 7 each time

9 28 Add 8 each time

10 16, 19 Add 3 each time

11 16, 21 Add 5 each time

12 28, 37 Add 9 each time

Most Count on in steps, including 1,000s and more.

1 63 $54 + 9 = 63$

2 55,000 $54,000 + 1,000 = 55,000$

3 400 $425 - 25 = 400$

4 900,000 $800,000 + 100,000 = 900,000$

5 4,000 $3,000 + 1,000 = 4,000$

6 690,000 $700,000 - 10,000 = 690,000$

7 531 $522 + 9 = 531$

8 606,320 $606,310 + 10 = 606,320$

9 469 $462 + 7 = 469$

10 1,100,000 $1,000,000 + 100,000 = 1,100,000$

11 250 $225 + 25 = 250$

12 330,000 $329,000 + 1,000 = 330,000$

Some Find the rule and fill in missing terms.

1 8, 32 Multiply by 2 each time

2 1 Add 0.2 each time

3 49, 64 These are square numbers (1×1 , 2×2 , 3×3 , ...)

4 9 These are square numbers (1×1 , 2×2 , 3×3 , ...)

5 54, 162 Multiply by 3 each time

6 1 Add 0.2 each time

7 36, 64 These are square numbers (1×1 , 2×2 , 3×3 , ...)

8 5 Subtract 7 each time

9 54 Multiply by 3 each time

10 9, 25 These are square numbers (1×1 , 2×2 , 3×3 , ...)

11 16, 21 Add 5 each time

12 36, 49 These are square numbers (1×1 , 2×2 , 3×3 , ...)

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Function machines and formulae: answers

All Work out what comes out of a function machine.

- | | |
|--|---|
| 1 4 Start at 7, $-4 = 3$, $+1 = 4$. | 2 5 Start at 10, $\div 2 = 5$. |
| 3 55 Start at 10, $\times 5 = 50$, $+5 = 55$. | 4 13 Start at 9, $+4 = 13$. |
| 5 4 Start at 9, $\times 3 = 27$, $\div 3 = 9$, $-5 = 4$. | 6 5 Start at 8, $-3 = 5$. |
| 7 32 Start at 10, $\times 3 = 30$, $+2 = 32$. | 8 20 Start at 9, $+11 = 20$. |
| 9 1 Start at 5, $-4 = 1$. | 10 3 Start at 12, $-4 = 8$, $\times 3 = 24$, $-21 = 3$. |
| 11 45 Start at 3, $-2 = 1$, $+8 = 9$, $\times 5 = 45$. | 12 17 Start at 7, $+6 = 13$, $+4 = 17$. |

Most Work backwards to find the input or a missing step.

- | | |
|---|--|
| 1 7 Output 4, undo $+1 = 3$, undo $-4 = 7$ — so 7 went in. | 2 3 $10 \times ? = 30$, so $? = 3$. |
| 3 10 Output 5, undo $\div 2 = 10$ — so 10 went in. | 4 11 $9 + ? = 20$, so $? = 11$. |
| 5 10 Output 55, undo $+5 = 50$, undo $\times 5 = 10$ — so 10 went in. | 6 4 $5 - ? = 1$, so $? = 4$. |
| 7 9 Output 13, undo $+4 = 9$ — so 9 went in. | 8 3 $8 \times ? = 24$, so $? = 3$. |
| 9 9 Output 4, undo $-5 = 9$, undo $\div 3 = 27$, undo $\times 3 = 9$ — so 9 went in. | 10 8 $1 + ? = 9$, so $? = 8$. |
| 11 8 Output 5, undo $-3 = 8$ — so 8 went in. | 12 6 $7 + ? = 13$, so $? = 6$. |

Some Substitute a value into an equation.

- | | |
|--|---|
| 1 y = 2 $2x = 6$, so $y = 8 - 6 = 2$; $y = 2 \div 1 = 2$ | 2 y = 5 $3x = 9$, so $y = 14 - 9 = 5$; $y = 5 \div 1 = 5$ |
| 3 y = 6 $3x = 6$, so $2y = 18 - 6 = 12$; $y = 12 \div 2 = 6$ | 4 y = 3 $3x = 9$, so $y = 12 - 9 = 3$; $y = 3 \div 1 = 3$ |
| 5 y = 4 $3x = 12$, so $2y = 20 - 12 = 8$; $y = 8 \div 2 = 4$ | 6 y = 0 $x = 16$, so $y = 16 - 16 = 0$; $y = 0 \div 1 = 0$ |
| 7 y = 7 $x = 2$, so $y = 9 - 2 = 7$; $y = 7 \div 1 = 7$ | 8 y = 3 $2x = 4$, so $2y = 10 - 4 = 6$; $y = 6 \div 2 = 3$ |
| 9 y = 6 $2x = 12$, so $y = 18 - 12 = 6$; $y = 6 \div 1 = 6$ | 10 y = 9 $3x = 6$, so $y = 15 - 6 = 9$; $y = 9 \div 1 = 9$ |
| 11 y = 16 $x = 1$, so $y = 17 - 1 = 16$; $y = 16 \div 1 = 16$ | 12 y = 12 $2x = 6$, so $y = 18 - 6 = 12$; $y = 12 \div 1 = 12$ |

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All Reading scales

Name _____

Read scales and compare lengths, masses and volumes.

Page 1 of 2

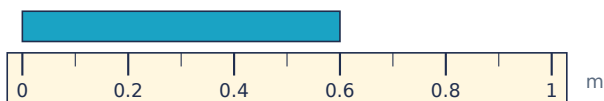
- 1 Read the bar on the ruler. Is 80 cm longer than, shorter than, or the same length as the bar?

Circle the answer.

shorter

longer

the same



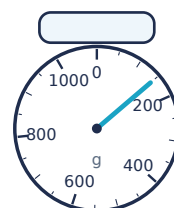
- 2 Is the mass on the scale more than, less than, or equal to 100 g?

Circle the answer.

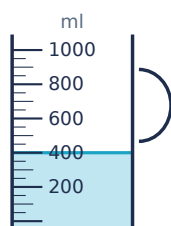
less

more

equal



- 3 The jug shows the water poured in. How many more millilitres are needed to fill it to 1 litre (1000 ml)?



ml

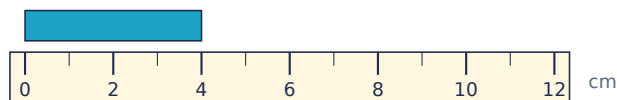
- 4 Read the bar on the ruler. Is 40 mm longer than, shorter than, or the same length as the bar?

Circle the answer.

the same

shorter

longer



- 5 Is the mass on the scale more than, less than, or equal to 3 kg?

Circle the answer.

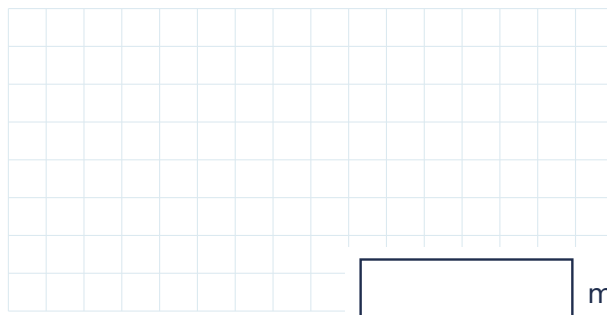
less

more

equal



- 6 A bottle holds 550 ml and a carton holds 150 ml. How many millilitres more does the bottle hold?



ml

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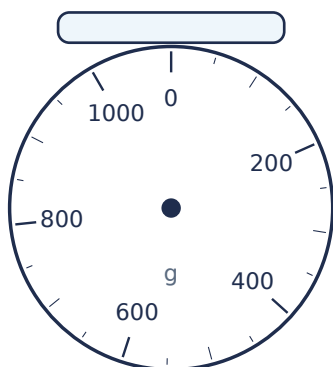
Most Reading scales

Name _____

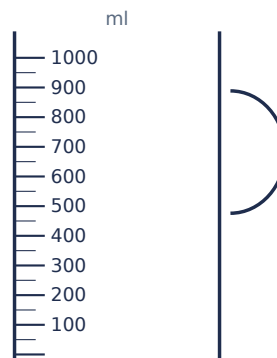
Page 1 of 2

Show a mass on a dial and a volume in a jug.

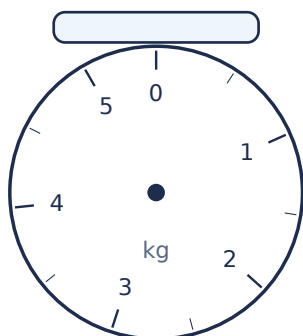
- 1 Draw the needle to show 400 g on the scale.



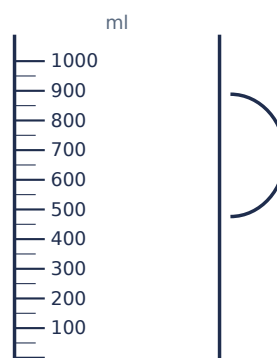
- 2 Shade the jug to show 450 ml.



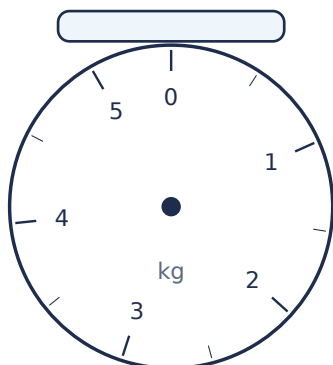
- 3 Draw the needle to show 0.5 kg on the scale.



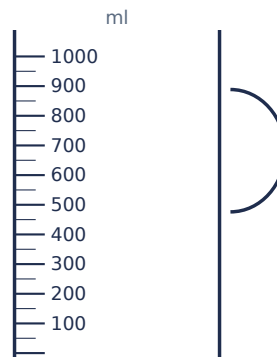
- 4 Shade the jug to show 800 ml.



- 5 Draw the needle to show 3 kg on the scale.



- 6 Shade the jug to show 700 ml.



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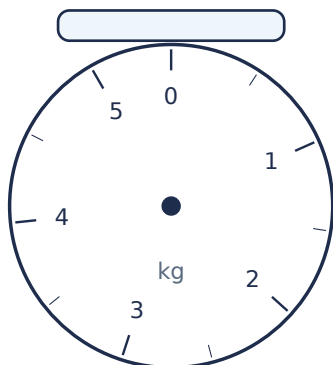
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Most Reading scales (continued)

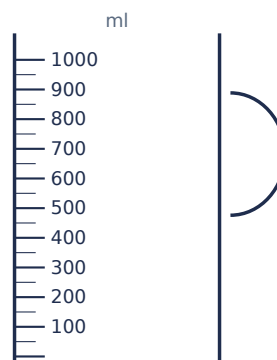
Show a mass on a dial and a volume in a jug.

Page 2 of 2

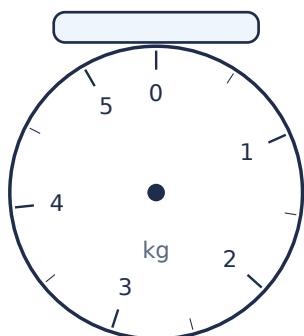
- 7** Draw the needle to show 1 kg on the scale.



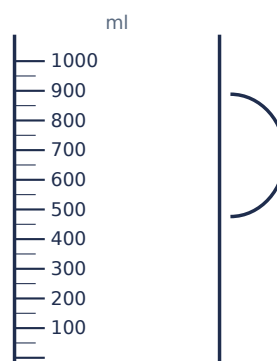
- 8** Shade the jug to show 500 ml.



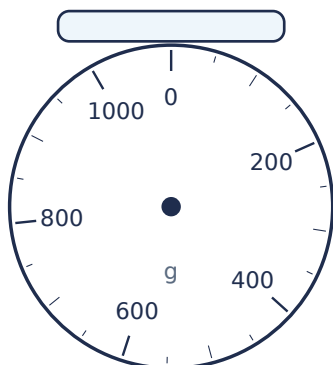
- 9** Draw the needle to show 4.5 kg on the scale.



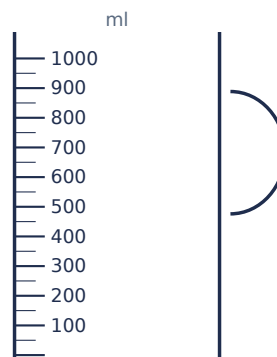
- 10** Shade the jug to show 900 ml.



- 11** Draw the needle to show 200 g on the scale.



- 12** Shade the jug to show 350 ml.



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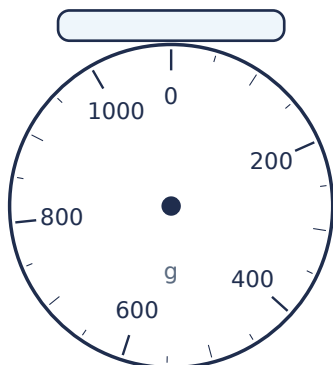
Some Reading scales

Name _____

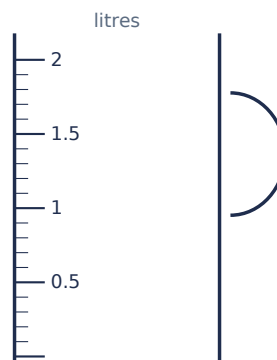
Use scales with decimals, converting between units.

Page 1 of 2

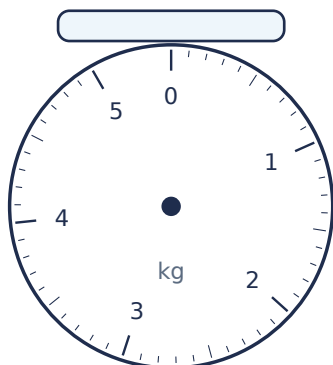
- 1 Draw the needle to show 0.4 kg.



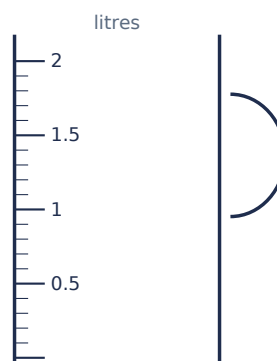
- 2 Shade the jug to show 1400 ml.



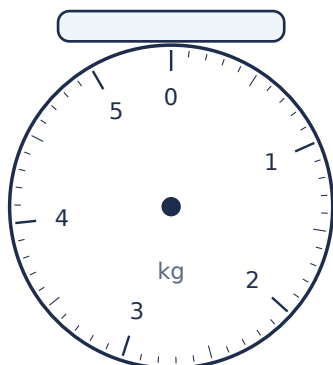
- 3 Draw the needle to show 3300 g.



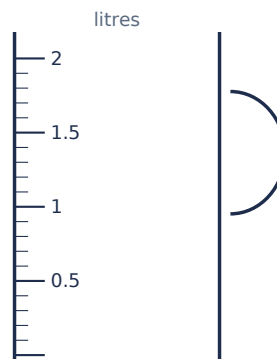
- 4 Shade the jug to show 1700 ml.



- 5 Draw the needle to show 2000 g.



- 6 Shade the jug to show 1200 ml.



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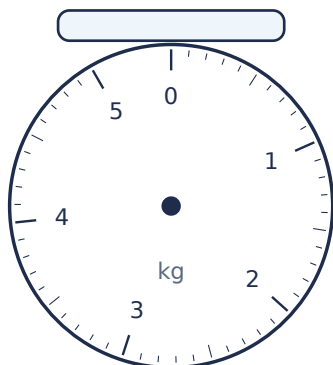
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Some Reading scales (continued)

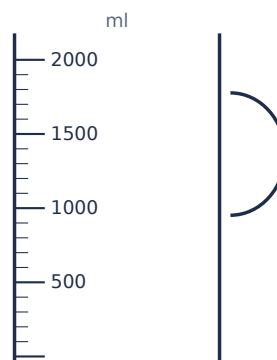
Use scales with decimals, converting between units.

Page 2 of 2

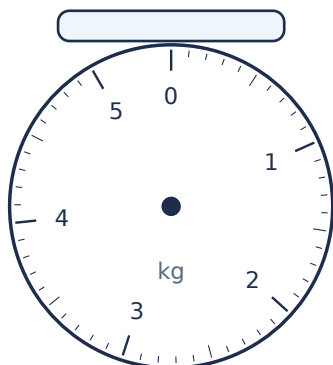
- 7 Draw the needle to show 4500 g.



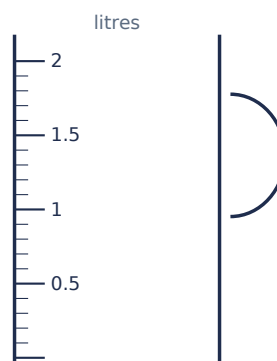
- 8 Shade the jug to show 0.8 litres.



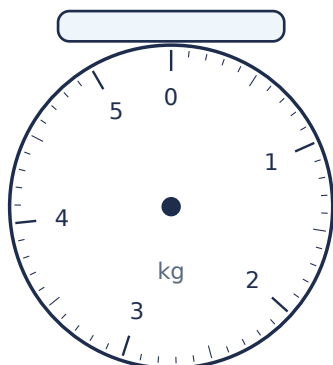
- 9 Draw the needle to show 5000 g.



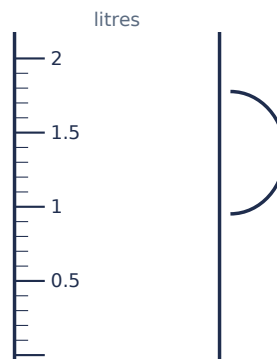
- 10 Shade the jug to show 100 ml.



- 11 Draw the needle to show 2300 g.



- 12 Shade the jug to show 300 ml.



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Reading scales: answers

All Read scales and compare lengths, masses and volumes.

1 longer than the bar

2 more than 100 g

3 600 ml $400 + 600 = 1000$

4 the same length as the bar

5 more than 3 kg

6 400 ml $550 - 150 = 400$

7 shorter than the bar

8 less than 4 kg

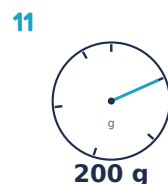
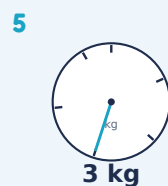
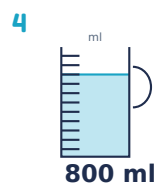
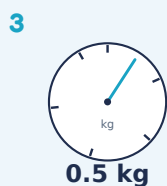
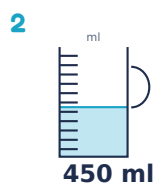
9 100 ml $750 - 650 = 100$

10 the same length as the bar

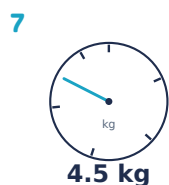
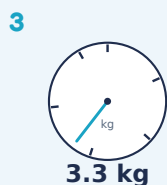
11 more than 2 kg

12 200 ml $400 - 200 = 200$

Most Show a mass on a dial and a volume in a jug.



Some Use scales with decimals, converting between units.



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Convert between metric units, including decimals.

6 Write 4 cm in mm.

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Convert between units, including money and miles.

£

km

m

pence

mm

m

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Converting units: answers

All Know the facts for converting units, including time.

1 1000 $1 \times 1000 = 1000$

2 5000 $5 \times 1000 = 5000$

3 480 $8 \times 60 = 480$

4 56 $8 \times 7 = 56$

5 800 $8 \times 100 = 800$

6 8 $80 \div 10 = 8$

7 6 $600 \div 100 = 6$

8 8000 $8 \times 1000 = 8000$

9 300 $5 \times 60 = 300$

10 5 $50 \div 10 = 5$

11 9 $90 \div 10 = 9$

12 40 $4 \times 10 = 40$

Most Convert between metric units, including decimals.

1 65 $6.5 \times 10 = 65 \text{ mm}$

2 7000 $7 \times 1000 = 7000 \text{ ml}$

3 3.75 kg $3,750 \div 1000 = 3.75 \text{ kg}$

4 4000 $4 \times 1000 = 4000 \text{ ml}$

5 100 cm $1 \times 100 = 100 \text{ cm}$

6 40 $4 \times 10 = 40 \text{ mm}$

7 1500 $1.5 \times 1000 = 1500 \text{ m}$

8 1.75 $175 \div 100 = 1.75 \text{ m}$

9 3.5 $350 \div 100 = 3.5 \text{ m}$

10 2.5 $250 \div 100 = 2.5 \text{ m}$

11 75 $7.5 \times 10 = 75 \text{ mm}$

12 8.5 cm $85 \div 10 = 8.5 \text{ cm}$

Some Convert between units, including money and miles.

1 £0.25

2 8 km

3 0.75 m

4 600 pence

5 3500 mm

6 3000 m

7 2 km

8 48 km

9 £7.50

10 80 km

11 32 km

12 6000 m

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Imperial units, miles and kilometres: answers

All Convert between imperial and metric units.

1 90 cm

2 7 pints

3 44 pounds

4 21 pints

5 9 litres

6 14 pints

7 5 cm

8 11 pounds

9 8 km

10 25 cm

11 32 km

12 150 cm

Most Convert miles to kilometres.

1 80 km $50 \div 5 \times 8 = 80$ km

2 136 km $85 \div 5 \times 8 = 136$ km

3 120 km $75 \div 5 \times 8 = 120$ km

4 56 km $35 \div 5 \times 8 = 56$ km

5 8 km $5 \div 5 \times 8 = 8$ km

6 24 km $15 \div 5 \times 8 = 24$ km

7 160 km $100 \div 5 \times 8 = 160$ km

8 16 km $10 \div 5 \times 8 = 16$ km

9 64 km $40 \div 5 \times 8 = 64$ km

10 32 km $20 \div 5 \times 8 = 32$ km

11 48 km $30 \div 5 \times 8 = 48$ km

12 40 km $25 \div 5 \times 8 = 40$ km

Some Convert kilometres to miles.

1 50 miles $80 \div 8 \times 5 = 50$ miles

2 85 miles $136 \div 8 \times 5 = 85$ miles

3 75 miles $120 \div 8 \times 5 = 75$ miles

4 35 miles $56 \div 8 \times 5 = 35$ miles

5 60 miles $96 \div 8 \times 5 = 60$ miles

6 15 miles $24 \div 8 \times 5 = 15$ miles

7 100 miles $160 \div 8 \times 5 = 100$ miles

8 10 miles $16 \div 8 \times 5 = 10$ miles

9 40 miles $64 \div 8 \times 5 = 40$ miles

10 20 miles $32 \div 8 \times 5 = 20$ miles

11 30 miles $48 \div 8 \times 5 = 30$ miles

12 25 miles $40 \div 8 \times 5 = 25$ miles

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Money and measures: answers

All Work out the change from a payment.

- | | |
|---|--|
| 1 £0.29 $£5.00 - £4.71 = £0.29$ change | 2 £0.32 $£8.00 - £7.68 = £0.32$ change |
| 3 £2.39 $£10.00 - £7.61 = £2.39$ change | 4 £0.24 $£7.00 - £6.76 = £0.24$ change |
| 5 £0.87 $£6.00 - £5.13 = £0.87$ change | 6 £0.65 $£4.00 - £3.35 = £0.65$ change |
| 7 £0.45 $£1.00 - £0.55 = £0.45$ change | 8 £0.99 $£3.00 - £2.01 = £0.99$ change |
| 9 £0.47 $£2.00 - £1.53 = £0.47$ change | 10 £0.16 $£9.00 - £8.84 = £0.16$ change |
| 11 £3.41 $£10.00 - £6.59 = £3.41$ change | 12 £0.22 $£6.00 - £5.78 = £0.22$ change |

Most Compare measures and solve measure problems.

- | | |
|----------------------|---|
| 1 450 g | 2 0.74 m $2.23 - 1.49 = 0.74$ m |
| 3 £3.03 | 4 654 g $279 + 375 = 654$ g |
| 5 £4.10 | 6 529 g $158 + 371 = 529$ g |
| 7 0.8 litres | 8 £12.25 $5 \times £2.45 = £12.25$ |
| 9 £3.15 | 10 £7.80 $4 \times £1.95 = £7.80$ |
| 11 1.8 litres | 12 761 g $285 + 476 = 761$ g |

Some Solve money problems with decimals.

- | | |
|---|---|
| 1 £5.31 $£6.10 - £0.79 = £5.31$ | 2 £18.48 $7 \times £2.64 = £18.48$ |
| 3 £28.17 $9 \times £3.13 = £28.17$ | 4 £14.93 $£9.12 + £5.81 = £14.93$ |
| 5 £9.19 $£3.99 + £5.20 = £9.19$ | 6 £13.31 $£8.65 + £4.66 = £13.31$ |
| 7 £6.89 $£7.85 - £0.96 = £6.89$ | 8 £21.68 $8 \times £2.71 = £21.68$ |
| 9 £11.70 $6 \times £1.95 = £11.70$ | 10 £10.37 $£1.65 + £8.72 = £10.37$ |
| 11 £1.86 $£3.72 \div 2 = £1.86$ | 12 £2.78 $2 \times £1.39 = £2.78$ |

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Measure word problems: answers

All Add and subtract lengths, masses and volumes.

- | | |
|---|---|
| 1 135 cm $1\text{ m} + 35\text{ cm} = 135\text{ cm}$ ($1\text{ m} = 100\text{ cm}$) | 2 1350 g $1\text{ kg} + 350\text{ g} = 1350\text{ g}$ ($1\text{ kg} = 1000\text{ g}$) |
| 3 1700 ml $3\text{ l} - 1300\text{ ml} = 1700\text{ ml}$ ($1\text{ l} = 1000\text{ ml}$) | 4 85 cm $3\text{ m} - 215\text{ cm} = 85\text{ cm}$ ($1\text{ m} = 100\text{ cm}$) |
| 5 850 g $3\text{ kg} - 2150\text{ g} = 850\text{ g}$ ($1\text{ kg} = 1000\text{ g}$) | 6 3100 ml $3\text{ l} + 100\text{ ml} = 3100\text{ ml}$ ($1\text{ l} = 1000\text{ ml}$) |
| 7 35 cm $55\text{ cm} - 20\text{ cm} = 35\text{ cm}$ | 8 350 g $550\text{ g} - 200\text{ g} = 350\text{ g}$ |
| 9 100 ml $350\text{ ml} - 250\text{ ml} = 100\text{ ml}$ | 10 140 cm $4\text{ m} - 260\text{ cm} = 140\text{ cm}$ ($1\text{ m} = 100\text{ cm}$) |
| 11 1400 g $4\text{ kg} - 2600\text{ g} = 1400\text{ g}$ ($1\text{ kg} = 1000\text{ g}$) | 12 3550 ml $4\text{ l} - 450\text{ ml} = 3550\text{ ml}$ ($1\text{ l} = 1000\text{ ml}$) |

Most Solve decimal problems with lengths, masses and volumes.

- | | |
|---|---|
| 1 5.31 m $6.10\text{ m} - 0.79\text{ m} = 5.31\text{ m}$ | 2 8.18 kg $8.99\text{ kg} - 0.81\text{ kg} = 8.18\text{ kg}$ |
| 3 20.64 litres $8 \times 2.58\text{ litres} = 20.64\text{ litres}$ | 4 18.48 m $7 \times 2.64\text{ m} = 18.48\text{ m}$ |
| 5 12.47 kg $8.18\text{ kg} + 4.29\text{ kg} = 12.47\text{ kg}$ | 6 4.54 litres $5.29\text{ litres} - 0.75\text{ litres} = 4.54\text{ litres}$ |
| 7 28.17 m $9 \times 3.13\text{ m} = 28.17\text{ m}$ | 8 4.65 kg $8.09\text{ kg} - 3.44\text{ kg} = 4.65\text{ kg}$ |
| 9 1.77 litres $3.54\text{ litres} \div 2 = 1.77\text{ litres}$ | 10 14.93 m $9.12\text{ m} + 5.81\text{ m} = 14.93\text{ m}$ |
| 11 11.06 kg $7 \times 1.58\text{ kg} = 11.06\text{ kg}$ | 12 17.57 litres $7 \times 2.51\text{ litres} = 17.57\text{ litres}$ |

Some Calculate and convert between units.

- | | |
|---|--|
| 1 3500 g $1.75 \times 2 = 3.5\text{ kg} = 3500\text{ g}$ | 2 500 g $1 \div 2 = 0.5\text{ kg} = 500\text{ g}$ |
| 3 1.257 litres $1077 + 180 = 1257\text{ ml} = 1.257\text{ litres}$ | 4 2827 ml $3\text{ litres} = 3000\text{ ml}; 3000 - 173 = 2827\text{ ml}$ |
| 5 2.827 litres $3\text{ litres} = 3000\text{ ml}; 3000 - 173 = 2827\text{ ml} = 2.827\text{ litres}$ | 6 200 cm $0.5 \times 4 = 2\text{ m} = 200\text{ cm}$ |
| 7 10 cm $0.5 \div 5 = 0.1\text{ m} = 10\text{ cm}$ | 8 1.33 metres $26 + 107 = 133\text{ cm} = 1.33\text{ metres}$ |
| 9 983 g $2\text{ kg} = 2000\text{ g}; 2000 - 1017 = 983\text{ g}$ | 10 0.98 metres $2\text{ km} = 2000\text{ m}; 2000 - 102 = 1898\text{ m} = 0.98\text{ metres}$ |
| 11 1650 cm $2.75 \times 6 = 16.5\text{ m} = 1650\text{ cm}$ | 12 85 cm $5.95 \div 7 = 0.85\text{ m} = 85\text{ cm}$ |

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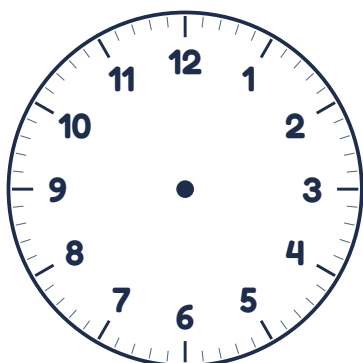
All Telling the time

Name _____

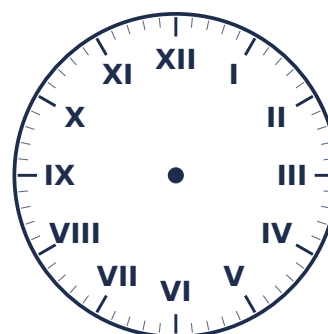
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Draw the hands on a clock, including Roman numeral clocks.

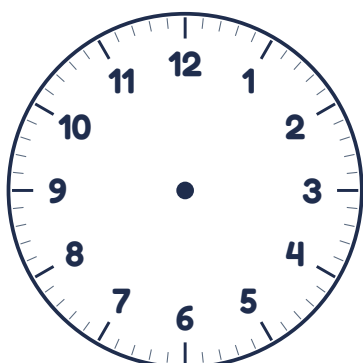
- 1 Draw the hands to show 20 minutes past 6.



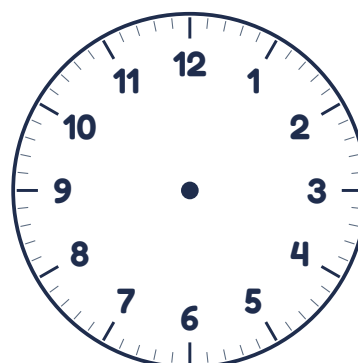
- 2 Draw the hands on this Roman numeral clock to show 9:50.



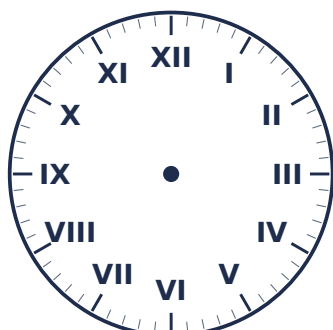
- 3 Draw the hands to show 1 minute past 10.



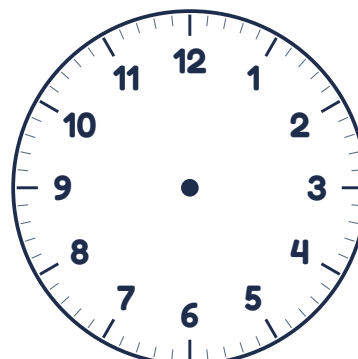
- 4 Draw the hands to show 10 o'clock.



- 5 Draw the hands on this Roman numeral clock to show 1:40.



- 6 Draw the hands to show 1 minute to 5.



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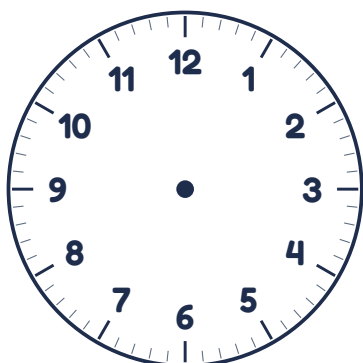
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All Telling the time (continued)

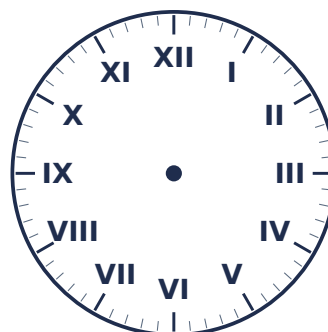
Draw the hands on a clock, including Roman numeral clocks.

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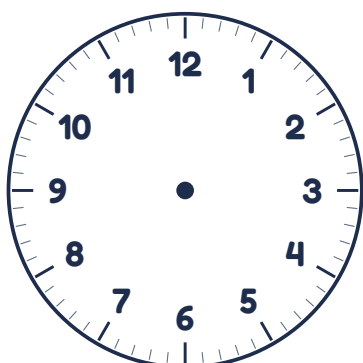
- 7 Draw the hands to show 25 minutes to 11.



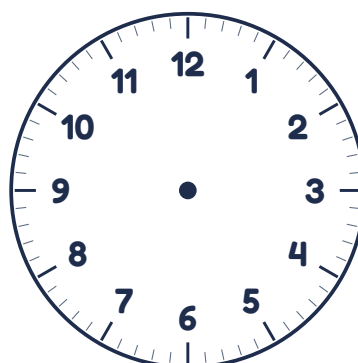
- 8 Draw the hands on this Roman numeral clock to show 9:25.



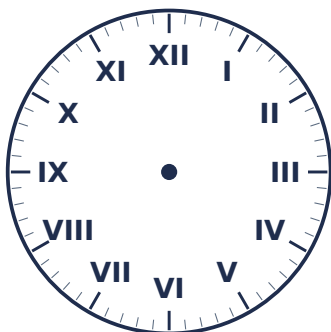
- 9 Draw the hands to show quarter past 1.



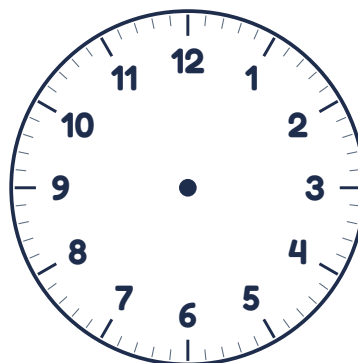
- 10 Draw the hands to show half past 12.



- 11 Draw the hands on this Roman numeral clock to show 6:15.



- 12 Draw the hands to show 23 minutes past 6.



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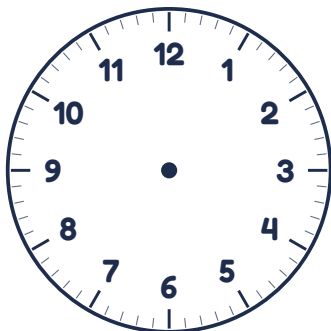
Most Telling the time

Name _____

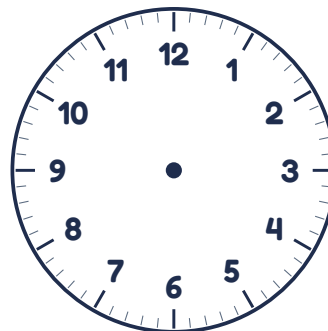
Page 1 of 2

Show 24-hour and digital times on a clock, and write 24-hour times.

- 1 Draw the hands to show 18:20 (24-hour time).

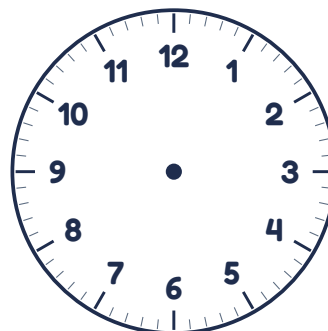


- 2 A digital clock shows 10:00. Draw the hands to show the same time.

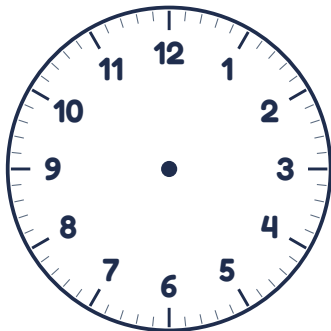


- 3 Write 1:30 in the morning as a 24-hour time.

- 4 Draw the hands to show 21:35 (24-hour time).



- 5 A digital clock shows 4:00. Draw the hands to show the same time.



- 6 Write 2:40 in the afternoon as a 24-hour time.

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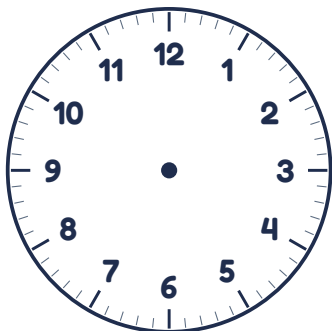
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Most Telling the time (continued)

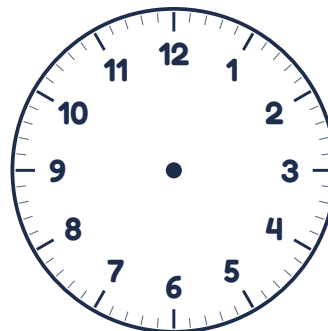
Show 24-hour and digital times on a clock, and write 24-hour times.

Page 2 of 2

- 7 Draw the hands to show 23:00 (24-hour time).

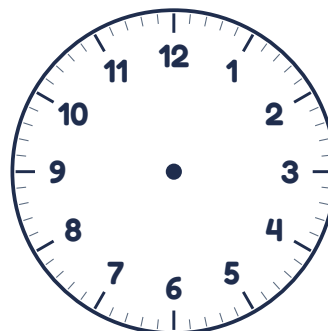


- 8 A digital clock shows 4:05. Draw the hands to show the same time.

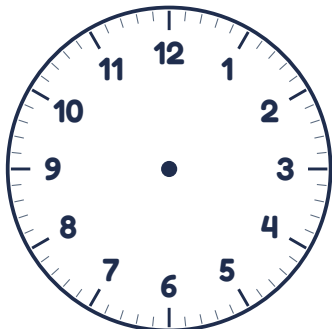


- 9 Write 5:00 in the afternoon as a 24-hour time.

- 10 Draw the hands to show 20:50 (24-hour time).



- 11 A digital clock shows 8:05. Draw the hands to show the same time.



- 12 Write 8:45 in the morning as a 24-hour time.

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Some Telling the time

Name _____

Page 1 of 2

Read a clock and write the time in 24-hour form.

- 1 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 2 The clock shows a time in the evening.
Write it as a 24-hour time.



evening

24-hour

- 3 The clock shows a time in the afternoon.
Write it as a 24-hour time.



afternoon

24-hour

- 4 The clock shows a time in the evening.
Write it as a 24-hour time.



evening

24-hour

- 5 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 6 The clock shows a time in the afternoon.
Write it as a 24-hour time.



afternoon

24-hour

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Some Telling the time (continued)

Read a clock and write the time in 24-hour form.

Page 2 of 2

- 7 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 8 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 9 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 10 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 11 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

- 12 The clock shows a time in the morning.
Write it as a 24-hour time.



morning

24-hour

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Telling the time: answers

All Draw the hands on a clock, including Roman numeral clocks.

1  6:20	2  9:50	3  10:01	4  10:00	5  1:40	6  4:59
7  10:35	8  9:25	9  1:15	10  12:30	11  6:15	12  6:23

Most Show 24-hour and digital times on a clock, and write 24-hour times.

1  6:20 (18:20)	2  10:00	3 01:30	4  9:35 (21:35)	5  4:00	6 14:40
7  11:00 (23:00)	8  4:05	9 17:00	10  8:50 (20:50)	11  8:05	12 08:45

Some Read a clock and write the time in 24-hour form.

1 11:20 morning, so the hour stays the same	2 19:00 $7 + 12 = 19$
3 17:05 $5 + 12 = 17$	4 22:00 $10 + 12 = 22$
5 08:05 morning, so the hour stays the same	6 14:05 $2 + 12 = 14$
7 01:05 morning, so the hour stays the same	8 08:55 morning, so the hour stays the same
9 04:55 morning, so the hour stays the same	10 02:40 morning, so the hour stays the same
11 04:20 morning, so the hour stays the same	12 03:50 morning, so the hour stays the same

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Some Time problems and timetables

Name _____

Page 1 of 2

Read tables and timetables to solve problems.

- 1 How many people (adults and children) visited on Monday altogether?

Visitors to the aquarium

Day	Adults	Children
Mon	17	41
Tue	50	14
Wed	53	42

- 2 Use the timetable. How many minutes does the train take to travel from Bay to Cove?

Train times

Stop	Time
Cliff	08:50
Pier	09:10
Bay	09:27
Cove	09:44

- 3 How many people (adults and children) visited on Tuesday altogether?

Visitors to the aquarium

Day	Adults	Children
Mon	54	23
Tue	17	53
Wed	66	49

- 4 The total for Wednesday is missing. What should it be?

Visitors to the aquarium

Day	Adults	Children	Total
Mon	35	32	67
Tue	15	54	69
Wed	29	64	?

- 5 How many more people visited on the busiest day than on the quietest day?

Visitors to the aquarium

Day	Adults	Children
Mon	46	64
Tue	32	58
Wed	44	68
Thu	58	40

- 6 How many people visited across all 3 days?

Visitors to the aquarium

Day	Adults	Children
Mon	42	60
Tue	17	31
Wed	59	55

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Some Time problems and timetables (continued)

Read tables and timetables to solve problems.

Page 2 of 2

- 7 Use the timetable. How many minutes is the whole journey, from Bay all the way to Cove?

Train times

Stop	Time
Bay	14:00
Cliff	14:13
Harbour	14:25
Cove	14:39

- 8 The total for Wednesday is missing. What should it be?

Visitors to the aquarium

Day	Adults	Children	Total
Mon	64	21	85
Tue	22	65	87
Wed	53	35	?
Thu	65	65	130

- 9 How many people visited across all 4 days?

Visitors to the aquarium

Day	Adults	Children
Mon	65	41
Tue	17	55
Wed	44	43
Thu	56	19

- 10 How many people visited across all 3 days?

Visitors to the aquarium

Day	Adults	Children
Mon	40	14
Tue	57	24
Wed	30	23

- 11 How many people visited across all 3 days?

Visitors to the aquarium

Day	Adults	Children
Mon	44	43
Tue	19	47
Wed	37	37

- 12 Use the timetable. How many minutes does the train take to travel from Harbour to Cove?

Train times

Stop	Time
Harbour	09:40
Cove	09:56
Pier	10:08
Cliff	10:19

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Time problems and timetables: answers

All Know the facts about units of time.

1 21 $3 \times 7 = 21$ days

2 12

3 366

4 31

5 24

6 60

7 300 $5 \times 60 = 300$ seconds

8 180 $3 \times 60 = 180$ seconds

9 35 $5 \times 7 = 35$ days

10 120 $2 \times 60 = 120$ seconds

11 14 $2 \times 7 = 14$ days

12 240 $4 \times 60 = 240$ seconds

Most Convert units of time and work out how long things take.

1 240 $4 \times 60 = 240$ seconds

2 1 hour 50 min 11:00 to 12:50

3 14 $2 \times 7 = 14$ days

4 1 hour 55 min

5 24 $2 \times 12 = 24$ months

6 1 hour 15 min

7 120 $2 \times 60 = 120$ minutes

8 1 hour 50 min

9 42 $6 \times 7 = 42$ days

10 1 hour 45 min

11 48 $4 \times 12 = 48$ months

12 1 hour 20 min

Some Read tables and timetables to solve problems.

1 58 $17 + 41 = 58$

2 17 09:27 to 09:44 is 17 minutes

3 70 $17 + 53 = 70$

4 93 $29 + 64 = 93$

5 22 Busiest 112 – quietest 90 = 22

6 264 Add every adult and child: total = 264

7 39 14:00 to 14:39 is 39 minutes

8 88 $53 + 35 = 88$

9 340 Add every adult and child: total = 340

10 188 Add every adult and child: total = 188

11 227 Add every adult and child: total = 227

12 16 09:40 to 09:56 is 16 minutes

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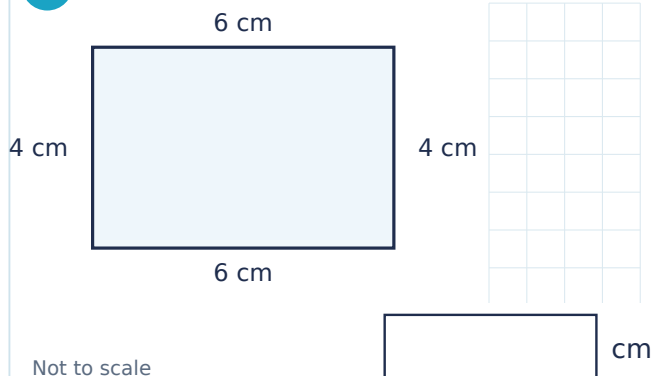
All Perimeter

Name _____

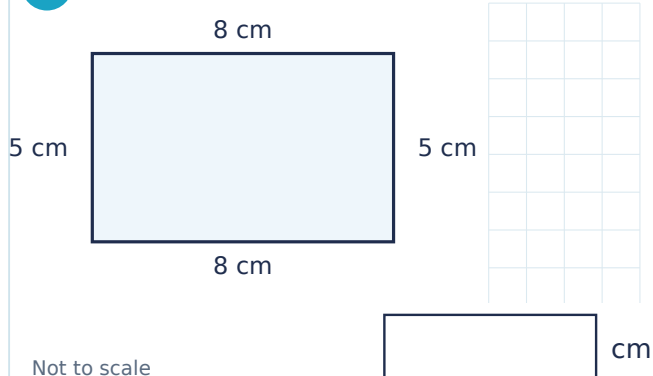
Find the perimeter of a rectangle.

Page 1 of 2

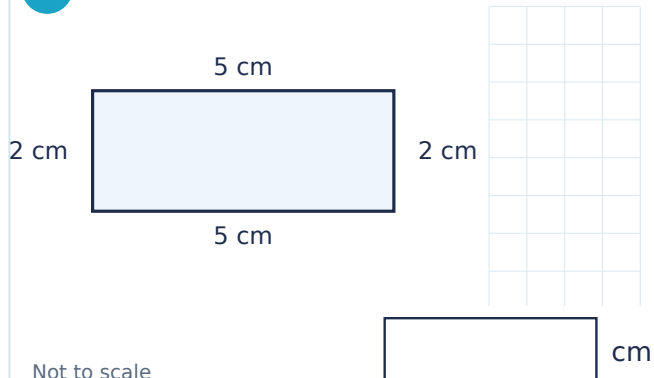
1 Work out the perimeter of the rectangle.



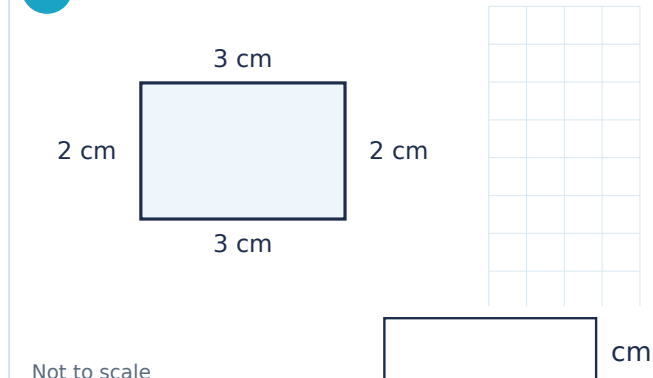
2 Work out the perimeter of the rectangle.



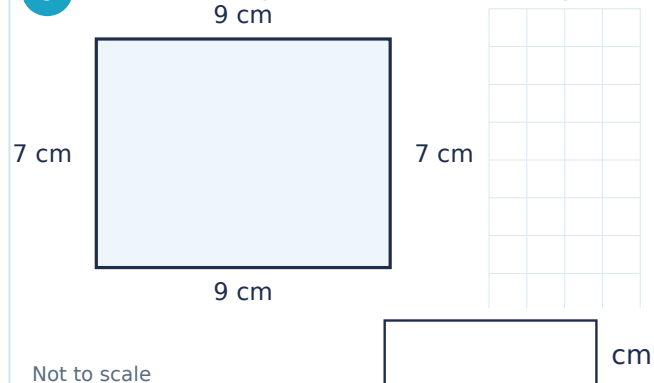
3 Work out the perimeter of the rectangle.



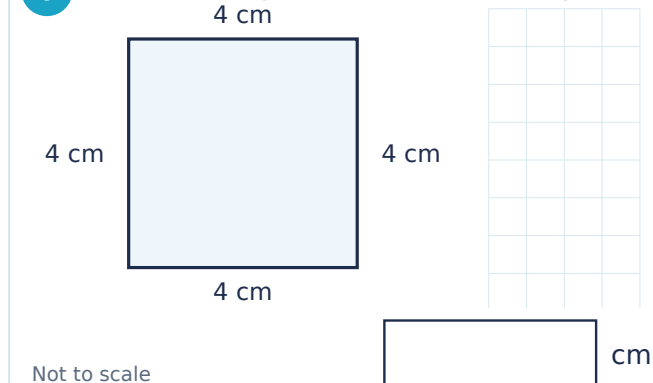
4 Work out the perimeter of the rectangle.



5 Work out the perimeter of the rectangle.



6 Work out the perimeter of the rectangle.



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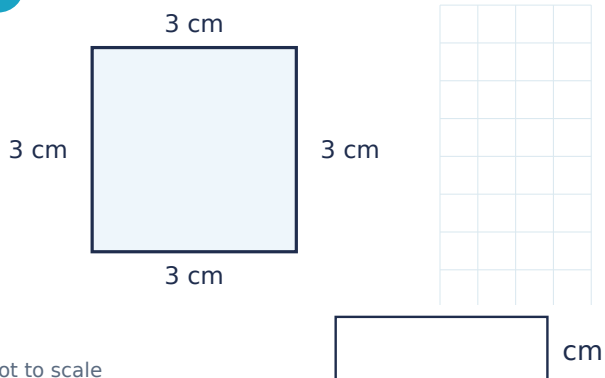
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All Perimeter (continued)

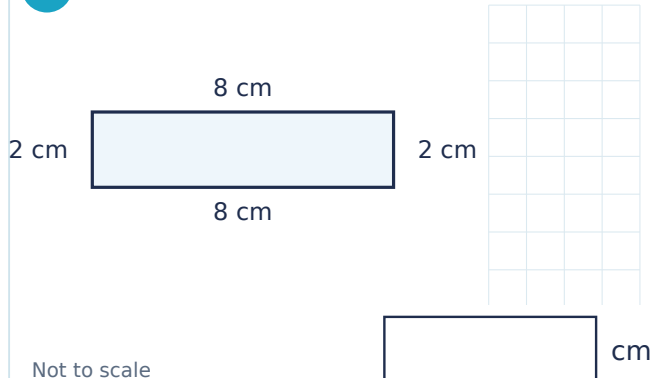
Find the perimeter of a rectangle.

Page 2 of 2

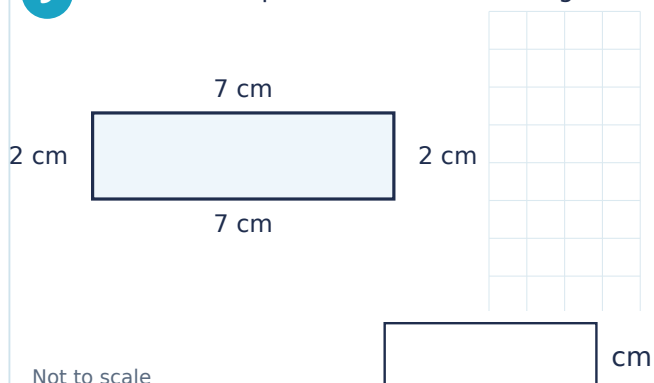
7 Work out the perimeter of the rectangle.



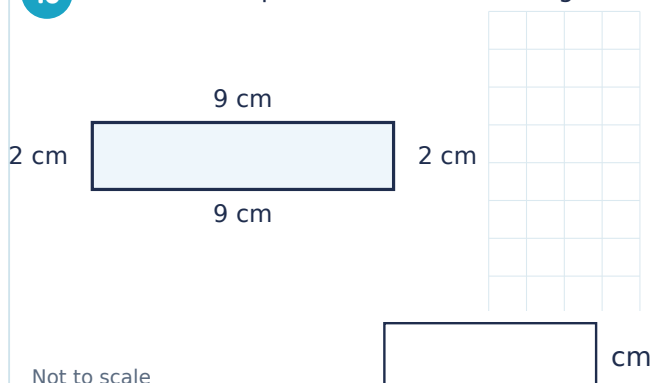
8 Work out the perimeter of the rectangle.



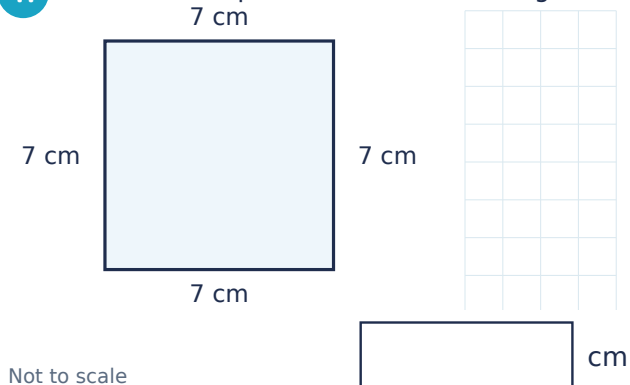
9 Work out the perimeter of the rectangle.



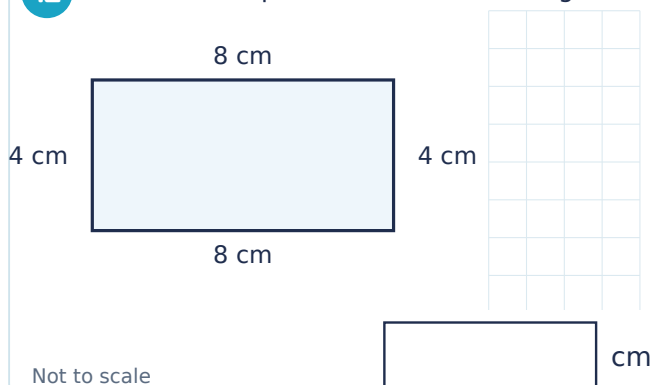
10 Work out the perimeter of the rectangle.



11 Work out the perimeter of the rectangle.



12 Work out the perimeter of the rectangle.



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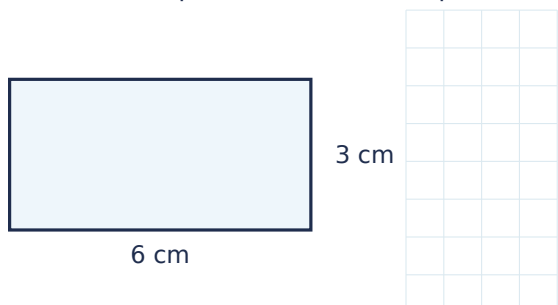
Most Perimeter

Name _____

Find the perimeter of shapes with missing side lengths.

Page 1 of 2

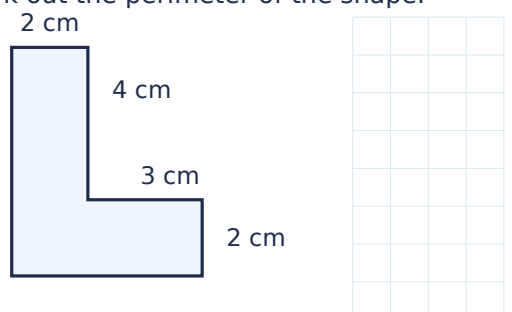
1 Work out the perimeter of the shape.



Not to scale

cm

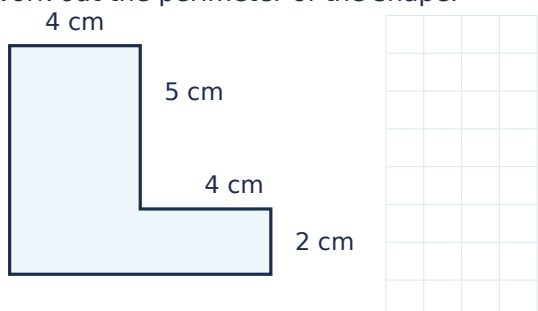
2 Work out the perimeter of the shape.



Not to scale

cm

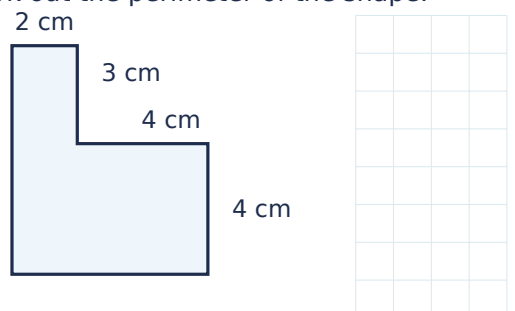
3 Work out the perimeter of the shape.



Not to scale

cm

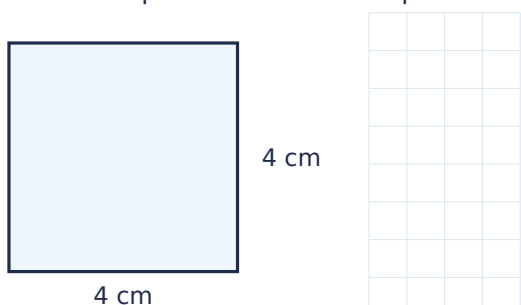
4 Work out the perimeter of the shape.



Not to scale

cm

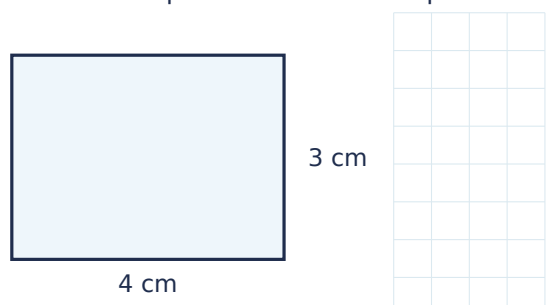
5 Work out the perimeter of the shape.



Not to scale

cm

6 Work out the perimeter of the shape.



Not to scale

cm

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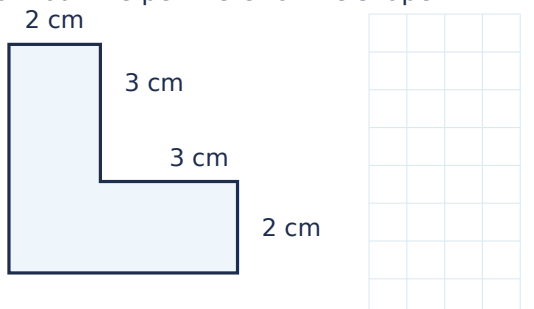
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Most Perimeter (continued)

Find the perimeter of shapes with missing side lengths.

Page 2 of 2

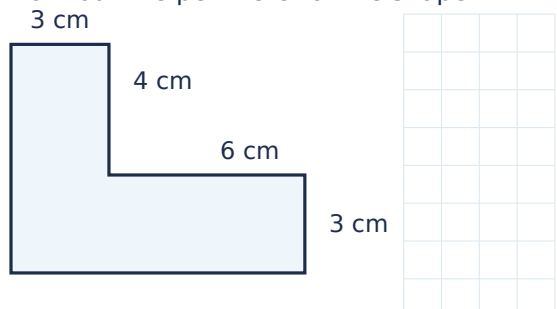
7 Work out the perimeter of the shape.



Not to scale

cm

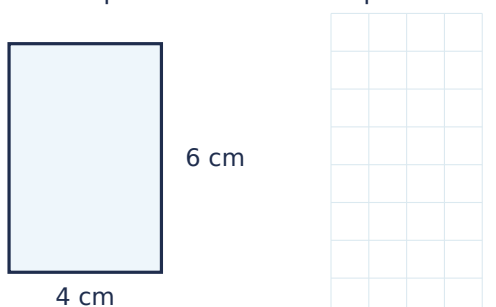
8 Work out the perimeter of the shape.



Not to scale

cm

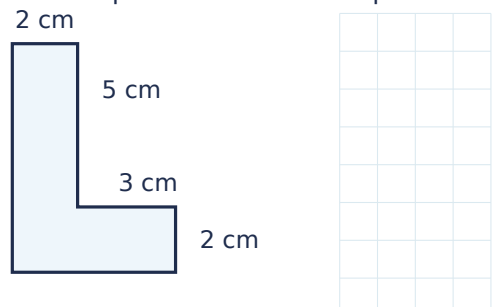
9 Work out the perimeter of the shape.



Not to scale

cm

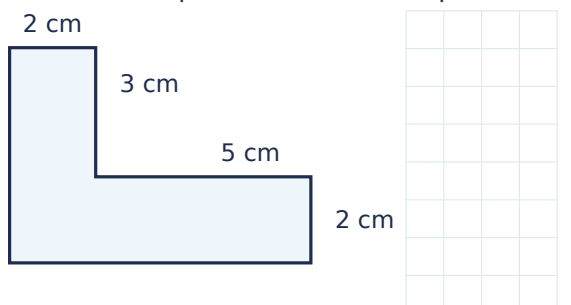
10 Work out the perimeter of the shape.



Not to scale

cm

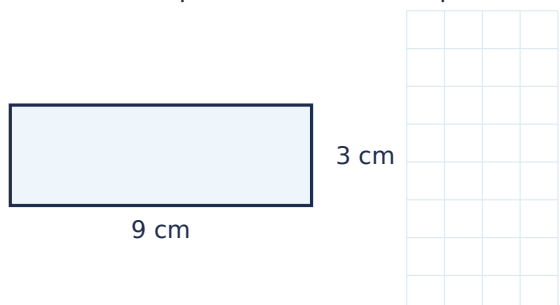
11 Work out the perimeter of the shape.



Not to scale

cm

12 Work out the perimeter of the shape.



Not to scale

cm

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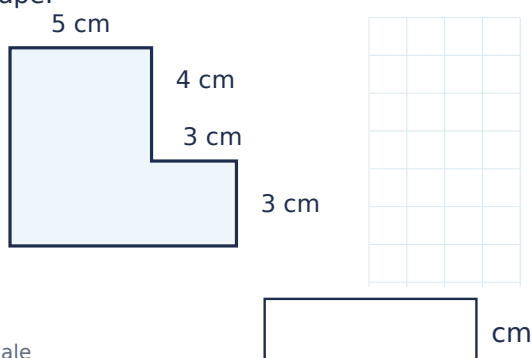
Some Perimeter

Name _____

Find perimeters of compound shapes, and compare area and perimeter.

Page 1 of 2

- 1 Work out the perimeter of this compound shape.



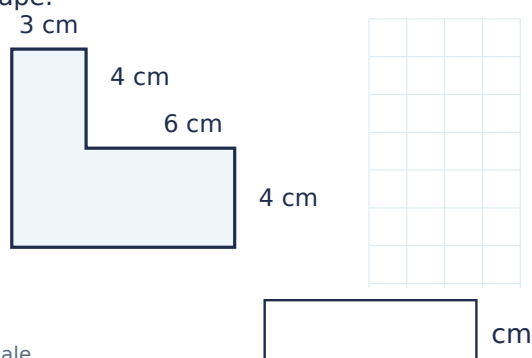
- 2 Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



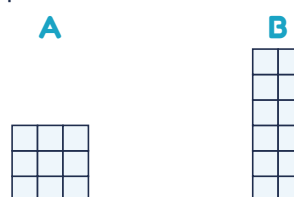
Greater area

Greater perimeter

- 3 Work out the perimeter of this compound shape.



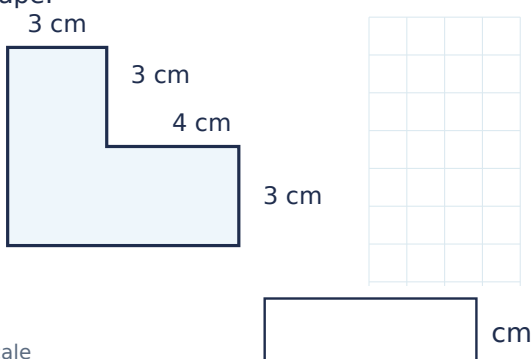
- 4 Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



Greater area

Greater perimeter

- 5 Work out the perimeter of this compound shape.



- 6 Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



Greater area

Greater perimeter

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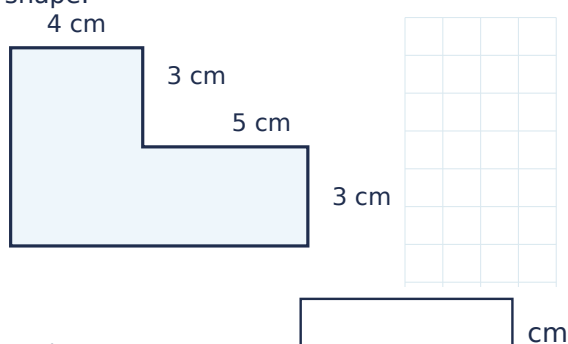
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Some Perimeter (continued)

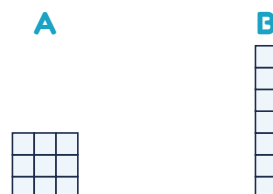
Find perimeters of compound shapes, and compare area and perimeter.

Page 2 of 2

- 7** Work out the perimeter of this compound shape.



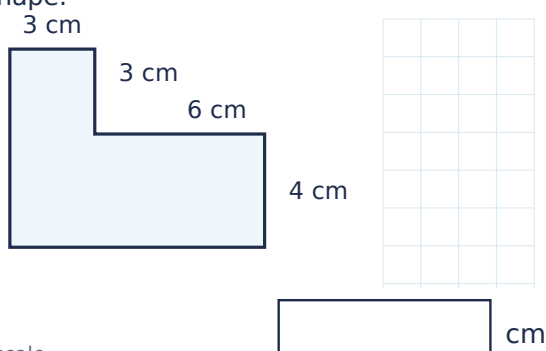
- 8** Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



Greater area

Greater perimeter

- 9** Work out the perimeter of this compound shape.



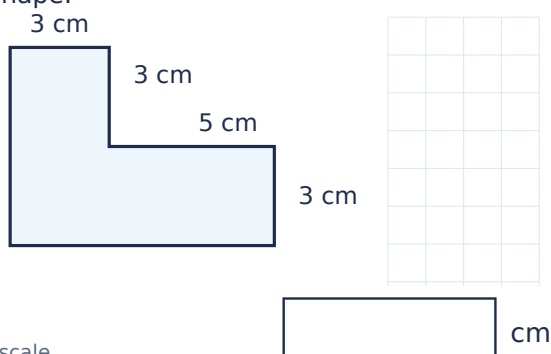
- 10** Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



Greater area

Greater perimeter

- 11** Work out the perimeter of this compound shape.



- 12** Shapes A and B are made of squares. Which has the greater area, and which has the greater perimeter? Write A, B or same.



Greater area

Greater perimeter

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Perimeter: answers

All Find the perimeter of a rectangle.

1 20 cm $2 \times (6 + 4) = 20 \text{ cm}$

2 26 cm $2 \times (8 + 5) = 26 \text{ cm}$

3 14 cm $2 \times (5 + 2) = 14 \text{ cm}$

4 10 cm $2 \times (3 + 2) = 10 \text{ cm}$

5 32 cm $2 \times (9 + 7) = 32 \text{ cm}$

6 16 cm $2 \times (4 + 4) = 16 \text{ cm}$

7 12 cm $2 \times (3 + 3) = 12 \text{ cm}$

8 20 cm $2 \times (8 + 2) = 20 \text{ cm}$

9 18 cm $2 \times (7 + 2) = 18 \text{ cm}$

10 22 cm $2 \times (9 + 2) = 22 \text{ cm}$

11 28 cm $2 \times (7 + 7) = 28 \text{ cm}$

12 24 cm $2 \times (8 + 4) = 24 \text{ cm}$

Most Find the perimeter of shapes with missing side lengths.

1 18 cm $2 \times (6 + 3) = 18 \text{ cm}$

2 22 cm $2 \times (5 + 6) = 22 \text{ cm}$

3 30 cm $2 \times (8 + 7) = 30 \text{ cm}$

4 26 cm $2 \times (6 + 7) = 26 \text{ cm}$

5 16 cm $2 \times (4 + 4) = 16 \text{ cm}$

6 14 cm $2 \times (4 + 3) = 14 \text{ cm}$

7 20 cm $2 \times (5 + 5) = 20 \text{ cm}$

8 32 cm $2 \times (9 + 7) = 32 \text{ cm}$

9 20 cm $2 \times (4 + 6) = 20 \text{ cm}$

10 24 cm $2 \times (5 + 7) = 24 \text{ cm}$

11 24 cm $2 \times (7 + 5) = 24 \text{ cm}$

12 24 cm $2 \times (9 + 3) = 24 \text{ cm}$

Some Find perimeters of compound shapes, and compare area and perimeter.

1 30 cm $2 \times (8 + 7) = 30 \text{ cm}$

2 Area: B · Perimeter: Same A: area 8, perimeter 18 · B: area 18, perimeter 18

3 34 cm $2 \times (9 + 8) = 34 \text{ cm}$

4 Area: B · Perimeter: B A: area 9, perimeter 12 · B: area 12, perimeter 16

5 26 cm $2 \times (7 + 6) = 26 \text{ cm}$

6 Area: A · Perimeter: Same A: area 20, perimeter 18 · B: area 14, perimeter 18

7 30 cm $2 \times (9 + 6) = 30 \text{ cm}$

8 Area: A · Perimeter: B A: area 9, perimeter 12 · B: area 7, perimeter 16

9 32 cm $2 \times (9 + 7) = 32 \text{ cm}$

10 Area: A · Perimeter: Same A: area 20, perimeter 18 · B: area 18, perimeter 18

11 28 cm $2 \times (8 + 6) = 28 \text{ cm}$

12 Area: B · Perimeter: B A: area 10, perimeter 14 · B: area 18, perimeter 18

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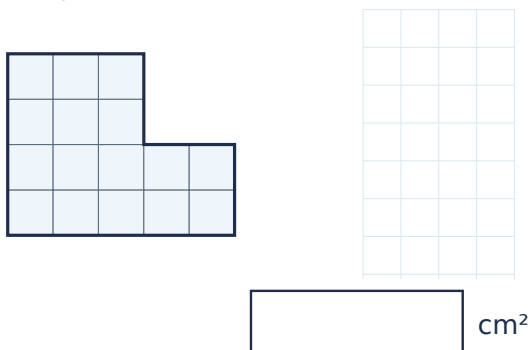
All Area

Find area by counting squares.

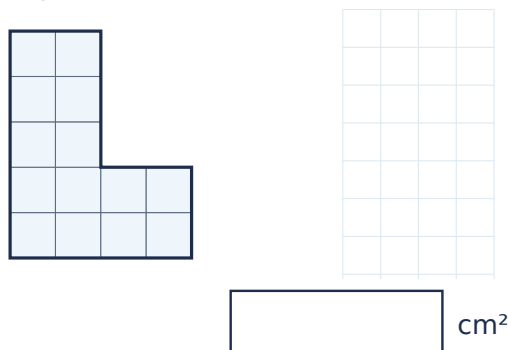
Name _____

Page 1 of 2

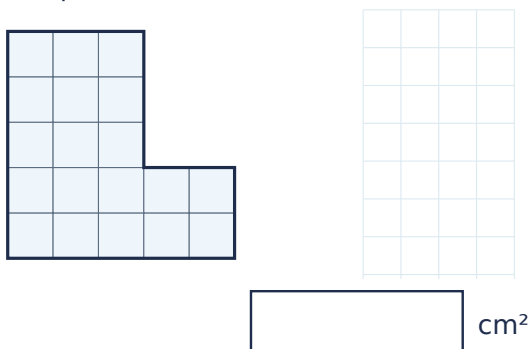
- 1 Each square is 1 cm^2 . What is the area of the shape?



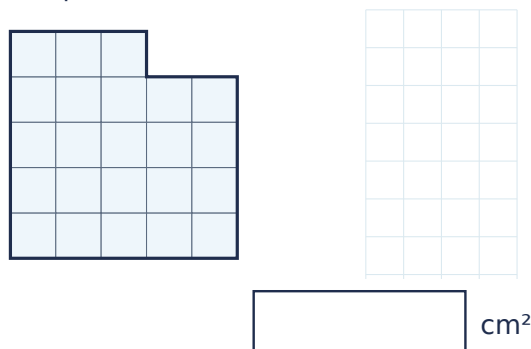
- 2 Each square is 1 cm^2 . What is the area of the shape?



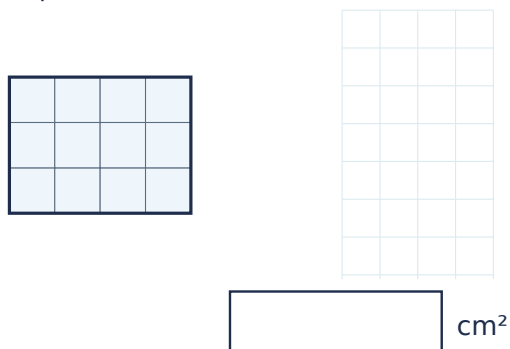
- 3 Each square is 1 cm^2 . What is the area of the shape?



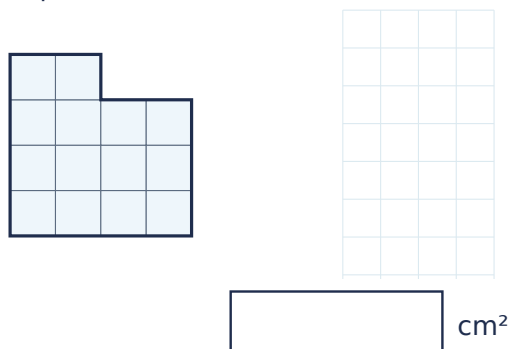
- 4 Each square is 1 cm^2 . What is the area of the shape?



- 5 Each square is 1 cm^2 . What is the area of the shape?



- 6 Each square is 1 cm^2 . What is the area of the shape?



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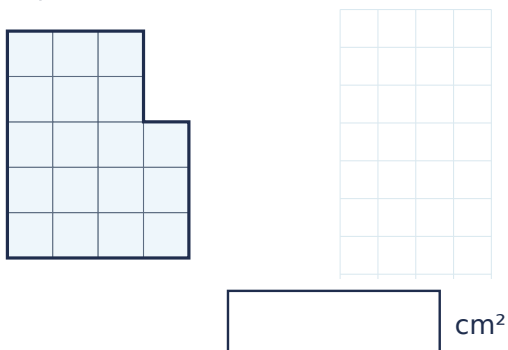
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All Area (continued)

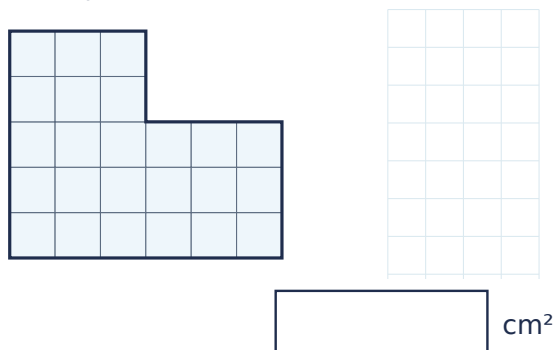
Find area by counting squares.

Page 2 of 2

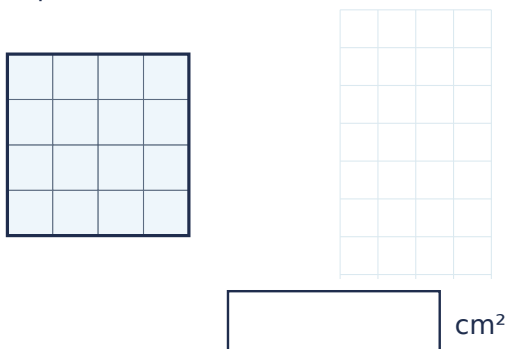
- 7** Each square is 1 cm^2 . What is the area of the shape?



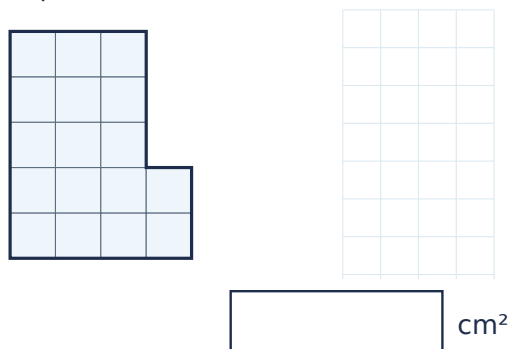
- 8** Each square is 1 cm^2 . What is the area of the shape?



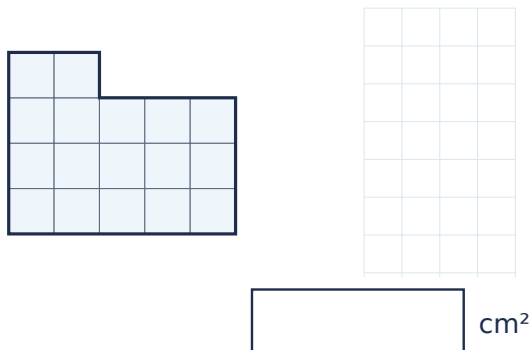
- 9** Each square is 1 cm^2 . What is the area of the shape?



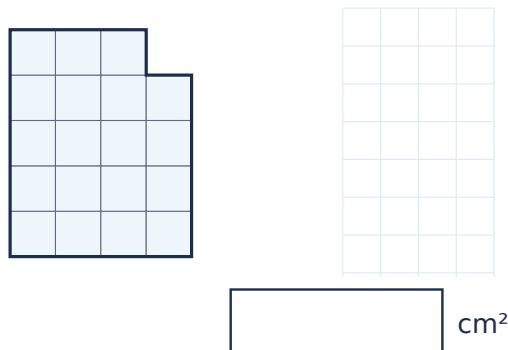
- 10** Each square is 1 cm^2 . What is the area of the shape?



- 11** Each square is 1 cm^2 . What is the area of the shape?



- 12** Each square is 1 cm^2 . What is the area of the shape?



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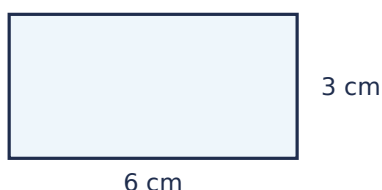
Most Area

Name _____

Find the area of rectangles and compound shapes.

Page 1 of 2

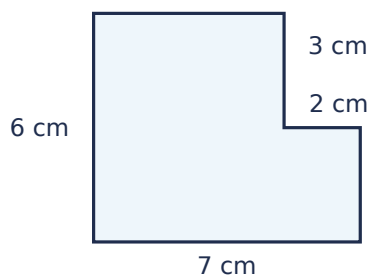
1 Work out the area of this shape.



Not to scale

cm²

2 Work out the area of this compound shape.



Not to scale

cm²

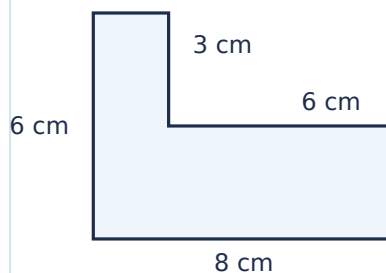
3 Work out the area of this shape.



Not to scale

cm²

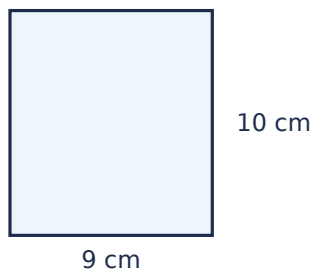
4 Work out the area of this compound shape.



Not to scale

cm²

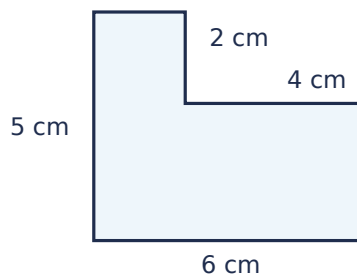
5 Work out the area of this shape.



Not to scale

cm²

6 Work out the area of this compound shape.



Not to scale

cm²

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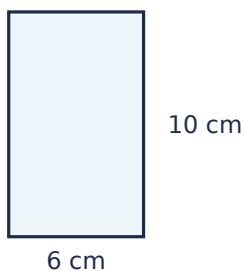
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Most Area (continued)

Find the area of rectangles and compound shapes.

Page 2 of 2

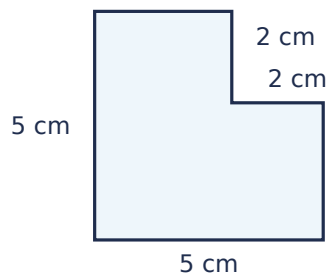
7 Work out the area of this shape.



Not to scale

cm²

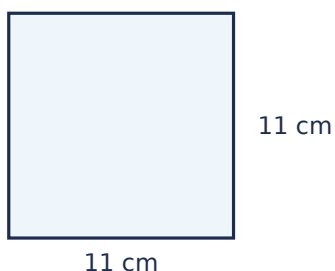
8 Work out the area of this compound shape.



Not to scale

cm²

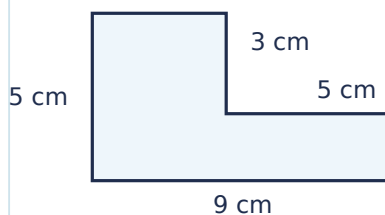
9 Work out the area of this shape.



Not to scale

cm²

10 Work out the area of this compound shape.



Not to scale

cm²

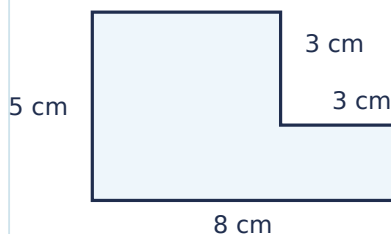
11 Work out the area of this shape.



Not to scale

cm²

12 Work out the area of this compound shape.



Not to scale

cm²

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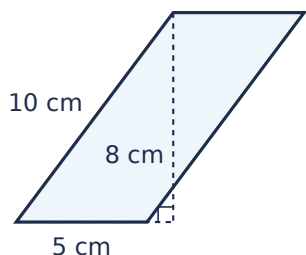
Some Area

Name _____

Find the area of parallelograms and triangles.

Page 1 of 2

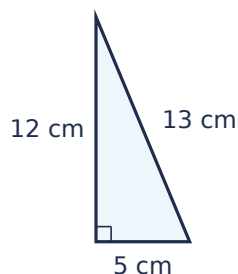
1 Work out the area of this shape.



Not to scale

cm²

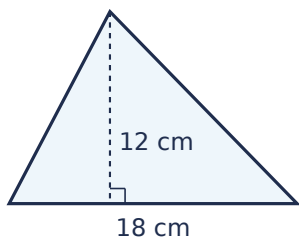
2 Work out the area of this shape.



Not to scale

cm²

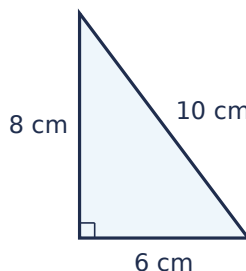
3 Work out the area of this shape.



Not to scale

cm²

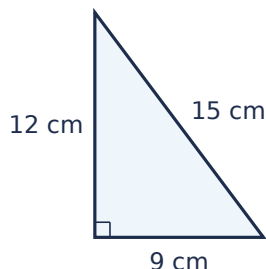
4 Work out the area of this shape.



Not to scale

cm²

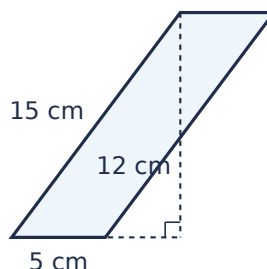
5 Work out the area of this shape.



Not to scale

cm²

6 Work out the area of this shape.



Not to scale

cm²

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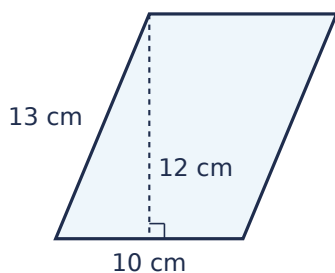
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Some Area (continued)

Find the area of parallelograms and triangles.

Page 2 of 2

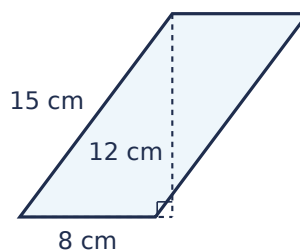
7 Work out the area of this shape.



Not to scale

cm²

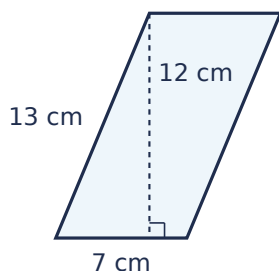
8 Work out the area of this shape.



Not to scale

cm²

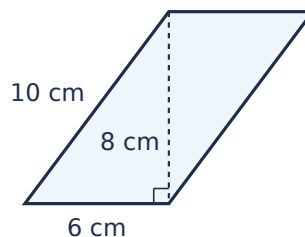
9 Work out the area of this shape.



Not to scale

cm²

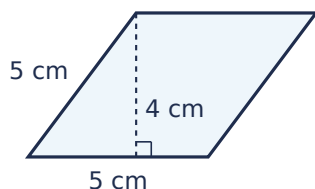
10 Work out the area of this shape.



Not to scale

cm²

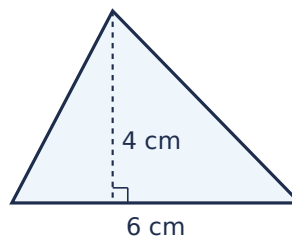
11 Work out the area of this shape.



Not to scale

cm²

12 Work out the area of this shape.



Not to scale

cm²

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Area: answers

All Find area by counting squares.

1 16 cm²

2 14 cm²

3 19 cm²

4 23 cm²

5 12 cm²

6 14 cm²

7 18 cm²

8 24 cm²

9 16 cm²

10 17 cm²

11 17 cm²

12 19 cm²

Most Find the area of rectangles and compound shapes.

1 18 cm² $6 \times 3 = 18 \text{ cm}^2$

2 36 cm² $7 \times 6 - 2 \times 3 = 42 - 6 = 36$

3 21 cm² $3 \times 7 = 21 \text{ cm}^2$

4 30 cm² $8 \times 6 - 6 \times 3 = 48 - 18 = 30$

5 90 cm² $9 \times 10 = 90 \text{ cm}^2$

6 22 cm² $6 \times 5 - 4 \times 2 = 30 - 8 = 22$

7 60 cm² $6 \times 10 = 60 \text{ cm}^2$

8 21 cm² $5 \times 5 - 2 \times 2 = 25 - 4 = 21$

9 121 cm² $11 \times 11 = 121 \text{ cm}^2$

10 30 cm² $9 \times 5 - 5 \times 3 = 45 - 15 = 30$

11 36 cm² $4 \times 9 = 36 \text{ cm}^2$

12 31 cm² $8 \times 5 - 3 \times 3 = 40 - 9 = 31$

Some Find the area of parallelograms and triangles.

1 40 cm² $5 \times 8 = 40 \text{ cm}^2$

2 30 cm² $\frac{1}{2} \times 5 \times 12 = 30 \text{ cm}^2$

3 108 cm² $\frac{1}{2} \times 18 \times 12 = 108 \text{ cm}^2$

4 24 cm² $\frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$

5 54 cm² $\frac{1}{2} \times 9 \times 12 = 54 \text{ cm}^2$

6 60 cm² $5 \times 12 = 60 \text{ cm}^2$

7 120 cm² $10 \times 12 = 120 \text{ cm}^2$

8 96 cm² $8 \times 12 = 96 \text{ cm}^2$

9 84 cm² $7 \times 12 = 84 \text{ cm}^2$

10 48 cm² $6 \times 8 = 48 \text{ cm}^2$

11 20 cm² $5 \times 4 = 20 \text{ cm}^2$

12 12 cm² $\frac{1}{2} \times 6 \times 4 = 12 \text{ cm}^2$

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All Volume

Name _____

Estimate capacity with sensible units.

Page 1 of 2

- 1** Estimate the capacity of a wheelie bin. Which is the most sensible?

Circle the answer.

2400 litres

24 litres

240 litres

- 2** Which of these holds about 10 litres?
Circle the answer.

a kitchen bucket

a medicine spoon

a water bottle

- 3** Estimate the capacity of an egg cup. Which is the most sensible?

Circle the answer.

50 ml

500 ml

5 ml

- 4** Estimate the capacity of a carton of milk. Which is the most sensible?

Circle the answer.

100 ml

1 litre

10 litres

- 5** Which of these holds about 330 ml?

Circle the answer.

a can of drink

a carton of milk

a wheelie bin

- 6** Estimate the capacity of a fish tank. Which is the most sensible?

Circle the answer.

600 litres

6 litres

60 litres

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Most Volume

Name _____

 Know which solids have volume length $\times$ width $\times$ height.

Page 1 of 2

- 1** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Cuboid

Triangular prism

Square-based pyramid

Cone

Cube

- 2** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Cuboid

Square-based pyramid

Sphere

Triangular prism

Cylinder

- 3** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Square-based pyramid

Cube

Cylinder

Cuboid

Triangular prism

- 4** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Sphere

Square-based pyramid

Cone

Cylinder

Cuboid

- 5** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Cone

Triangular prism

Sphere

Cuboid

Cylinder

- 6** Circle every solid whose volume you can work out as length $\times$ width $\times$ height.

Circle each one.

Sphere

Cube

Cuboid

Cylinder

Square-based pyramid

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Most Volume (continued)

 Know which solids have volume $\text{length} \times \text{width} \times \text{height}$.

Page 2 of 2

- 7** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Cuboid Triangular prism

Square-based pyramid Cone

Sphere

- 8** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Sphere Cube

Triangular prism

Square-based pyramid Cuboid

- 9** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Sphere Cube Cylinder

Cuboid Triangular prism

- 10** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Cube Cone Cuboid Sphere

Square-based pyramid

- 11** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Sphere Square-based pyramid

Triangular prism Cube Cone

- 12** Circle every solid whose volume you can work out as $\text{length} \times \text{width} \times \text{height}$.

Circle each one.

Cone Cylinder Cuboid

Cube Triangular prism

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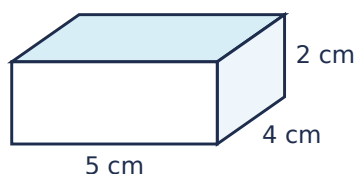
Some Volume

Name _____

Page 1 of 2

Work out the volume of a cuboid.

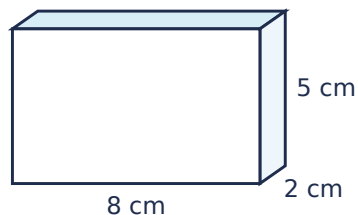
1 Work out the volume of this cuboid.



Not to scale

cm³

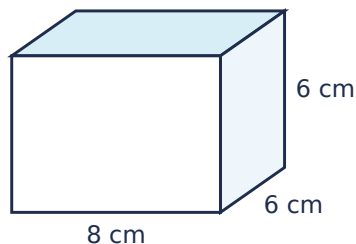
2 Work out the volume of this cuboid.



Not to scale

cm³

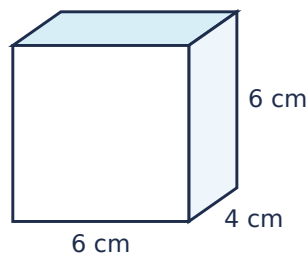
3 Work out the volume of this cuboid.



Not to scale

cm³

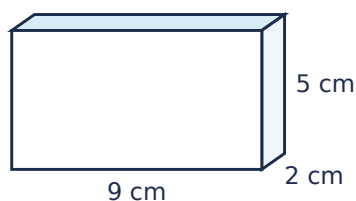
4 Work out the volume of this cuboid.



Not to scale

cm³

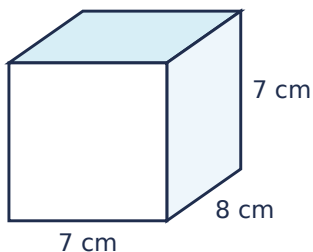
5 Work out the volume of this cuboid.



Not to scale

cm³

6 Work out the volume of this cuboid.



Not to scale

cm³

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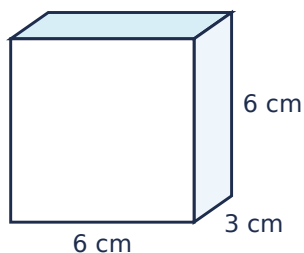
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Some Volume (continued)

Work out the volume of a cuboid.

Page 2 of 2

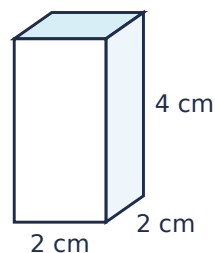
7 Work out the volume of this cuboid.



Not to scale

cm³

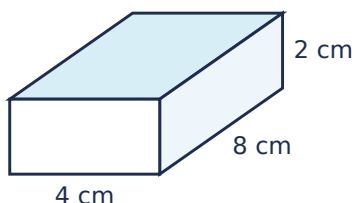
8 Work out the volume of this cuboid.



Not to scale

cm³

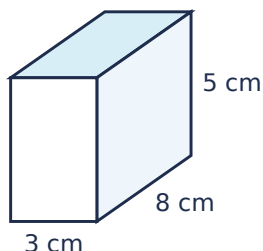
9 Work out the volume of this cuboid.



Not to scale

cm³

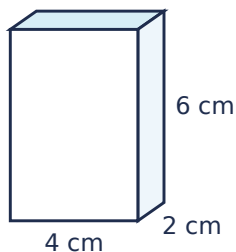
10 Work out the volume of this cuboid.



Not to scale

cm³

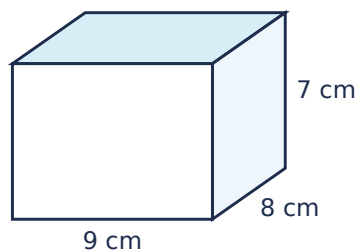
11 Work out the volume of this cuboid.



Not to scale

cm³

12 Work out the volume of this cuboid.



Not to scale

cm³

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Volume: answers

All Estimate capacity with sensible units.

- | | |
|-------------------------|----------------------------|
| 1 240 litres | 2 a kitchen bucket |
| 3 50 ml | 4 1 litre |
| 5 a can of drink | 6 60 litres |
| 7 1.5 litres | 8 5 ml |
| 9 250 ml | 10 150 litres |
| 11 200 litres | 12 a large saucepan |

Most Know which solids have volume length $\times$ width $\times$ height.

- | | |
|-----------------------|------------------------|
| 1 Cuboid, Cube | 2 Cuboid |
| 3 Cube, Cuboid | 4 Cuboid |
| 5 Cuboid | 6 Cube, Cuboid |
| 7 Cuboid | 8 Cube, Cuboid |
| 9 Cube, Cuboid | 10 Cube, Cuboid |
| 11 Cube | 12 Cuboid, Cube |

Some Work out the volume of a cuboid.

- | | |
|---|--|
| 1 40 cm^3 $5 \times 4 \times 2 = 40$ | 2 80 cm^3 $8 \times 2 \times 5 = 80$ |
| 3 288 cm^3 $8 \times 6 \times 6 = 288$ | 4 144 cm^3 $6 \times 4 \times 6 = 144$ |
| 5 90 cm^3 $9 \times 2 \times 5 = 90$ | 6 392 cm^3 $7 \times 8 \times 7 = 392$ |
| 7 108 cm^3 $6 \times 3 \times 6 = 108$ | 8 16 cm^3 $2 \times 2 \times 4 = 16$ |
| 9 64 cm^3 $4 \times 8 \times 2 = 64$ | 10 120 cm^3 $3 \times 8 \times 5 = 120$ |
| 11 48 cm^3 $4 \times 2 \times 6 = 48$ | 12 504 cm^3 $9 \times 8 \times 7 = 504$ |

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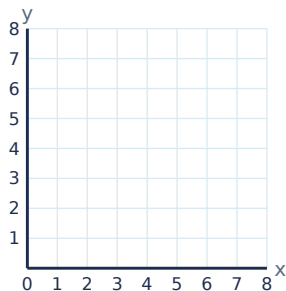
All 2-D shapes

Name _____

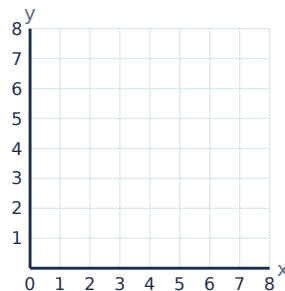
Page 1 of 2

Draw squares, rectangles and right-angled triangles on a grid.

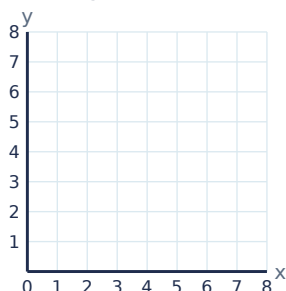
- 1** Mark the corners of this square on the grid: (1, 0), (4, 0), (4, 3), (1, 3). Join them with straight lines.



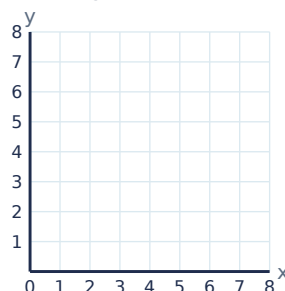
- 2** Mark the corners of this right-angled triangle on the grid: (0, 1), (4, 1), (0, 5). Join them with straight lines.



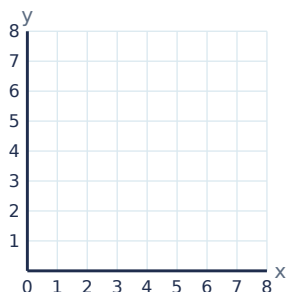
- 3** Mark the corners of this right-angled triangle on the grid: (1, 2), (4, 2), (1, 6). Join them with straight lines.



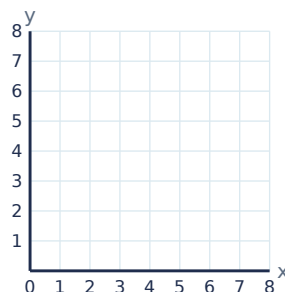
- 4** Mark the corners of this right-angled triangle on the grid: (0, 0), (4, 0), (0, 2). Join them with straight lines.



- 5** Mark the corners of this square on the grid: (1, 2), (4, 2), (4, 5), (1, 5). Join them with straight lines.



- 6** Mark the corners of this right-angled triangle on the grid: (0, 1), (3, 1), (0, 4). Join them with straight lines.


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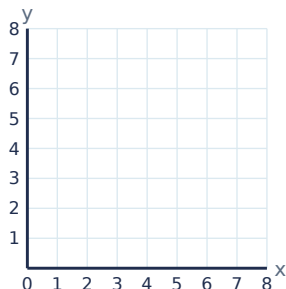
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All 2-D shapes (continued)

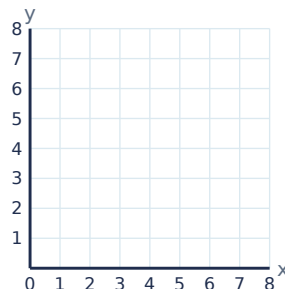
Draw squares, rectangles and right-angled triangles on a grid.

Page 2 of 2

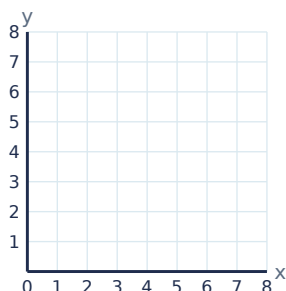
- 7** Mark the corners of this right-angled triangle on the grid: (2, 2), (5, 2), (2, 5). Join them with straight lines.



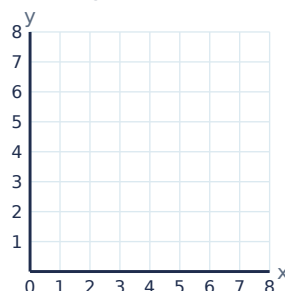
- 8** Mark the corners of this rectangle on the grid: (0, 2), (2, 2), (2, 5), (0, 5). Join them with straight lines.



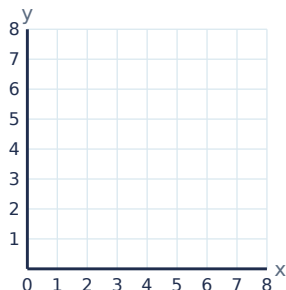
- 9** Mark the corners of this square on the grid: (0, 2), (2, 2), (2, 4), (0, 4). Join them with straight lines.



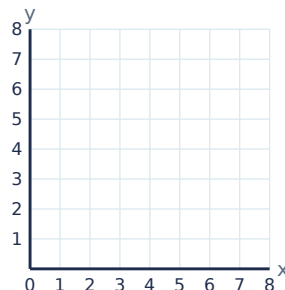
- 10** Mark the corners of this right-angled triangle on the grid: (1, 0), (5, 0), (1, 3). Join them with straight lines.



- 11** Mark the corners of this rectangle on the grid: (0, 1), (2, 1), (2, 2), (0, 2). Join them with straight lines.



- 12** Mark the corners of this right-angled triangle on the grid: (0, 2), (2, 2), (0, 4). Join them with straight lines.


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Page 1 of 2

F

F

F

cm

cm

○

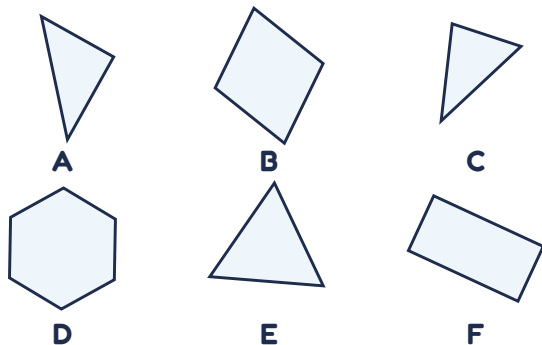
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Most 2-D shapes (continued)

Sort shapes by their properties, and use the properties of rectangles.

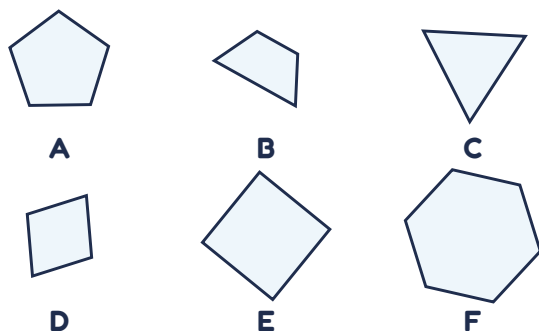
Page 2 of 2

- 7 Circle the letters of all the shapes that have at least one pair of parallel sides.



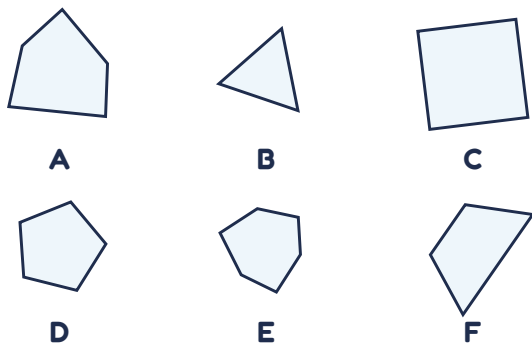
- 8** A rectangle has one side of 5 cm. What is the length of the opposite side, in cm?

- 9 Circle the letters of all the shapes with two pairs of parallel sides.



- 10** A rectangle has a perimeter of 32 cm. One side is 9 cm. What is the length of the adjacent side, in cm?

- 11** Circle the letters of all the shapes that have all sides equal in length.



- 12** A rectangle is 12 cm long and 2 cm wide. What is its perimeter, in cm?

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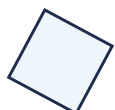
Some 2-D shapes

Name _____

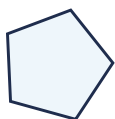
Recognise regular polygons, sort shapes, and find missing vertices.

Page 1 of 2

- 1** Circle the letters of all the regular polygons (all sides and angles equal).


A

B

C

D

E

F

- 2** Circle the letters of all the shapes with exactly one pair of parallel sides.


A

B

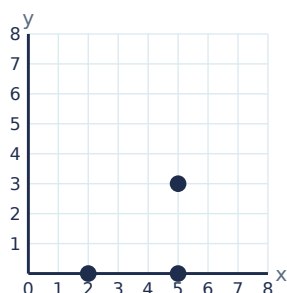
C

D

E

F

- 3** Three vertices of a rectangle are (2, 0), (5, 0) and (5, 3). Mark the fourth vertex with a cross.



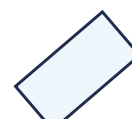
- 4** Circle the letters of all the irregular polygons (sides or angles not all equal).


A

B

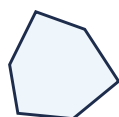
C

D

E

F

- 5** Circle the letters of all the shapes that have all sides equal in length.


A

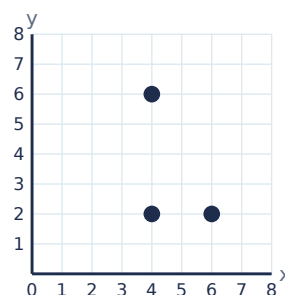
B

C

D

E

F

- 6** Three vertices of a rectangle are (4, 2), (6, 2) and (4, 6). Mark the fourth vertex with a cross.


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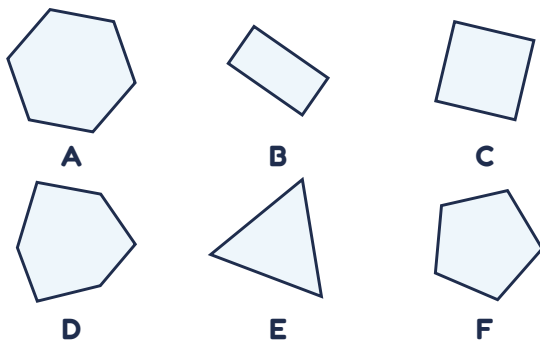
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Some 2-D shapes (continued)

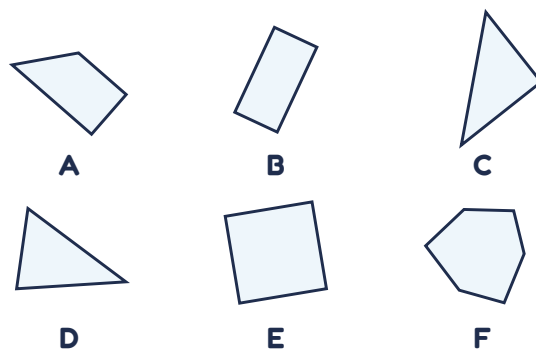
Recognise regular polygons, sort shapes, and find missing vertices.

Page 2 of 2

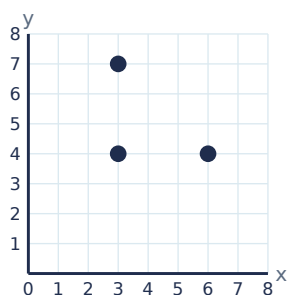
- 7** Circle the letters of all the irregular polygons (sides or angles not all equal).



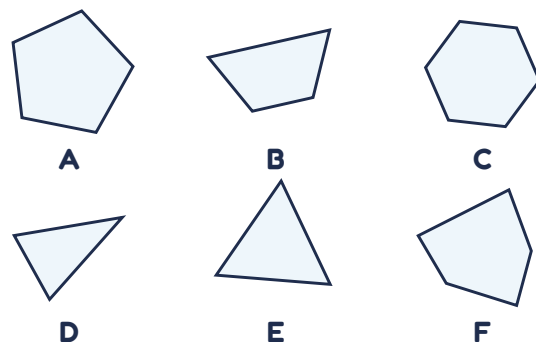
- 8** Circle the letters of all the shapes that have a right angle.



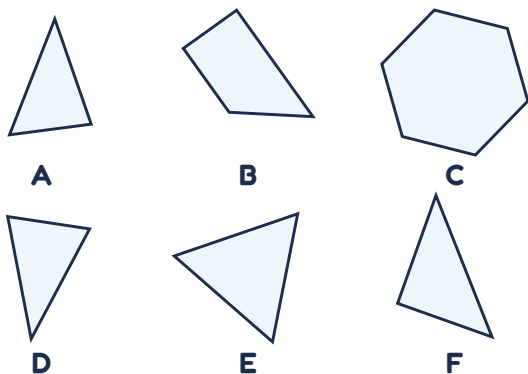
- 9** Three vertices of a rectangle are (3, 4), (6, 4) and (3, 7). Mark the fourth vertex with a cross.



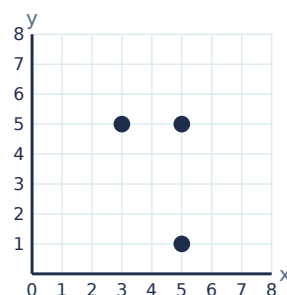
- 10** Circle the letters of all the irregular polygons (sides or angles not all equal).



- 11** Circle the letters of all the triangles.



- 12** Three vertices of a rectangle are (5, 1), (3, 5) and (5, 5). Mark the fourth vertex with a cross.

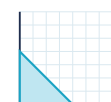
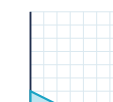
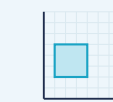
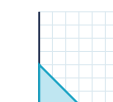
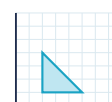
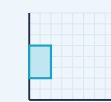
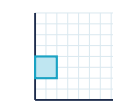
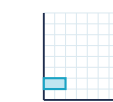


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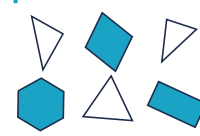
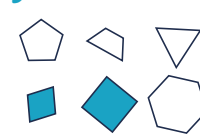
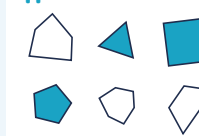
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2-D shapes: answers

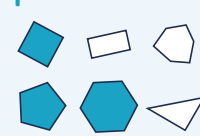
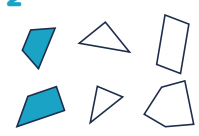
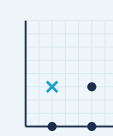
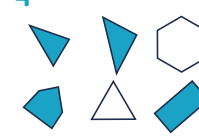
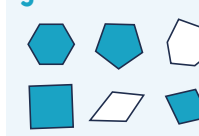
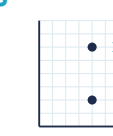
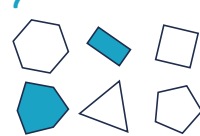
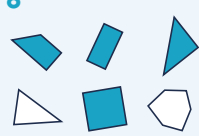
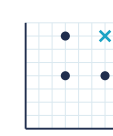
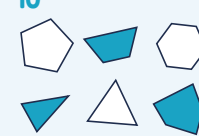
All Draw squares, rectangles and right-angled triangles on a grid.

1  $(1, 0), (4, 0)$ $(4, 3), (1, 3)$	2  $(0, 1), (4, 1), (0, 5)$	3  $(1, 2), (4, 2), (1, 6)$	4  $(0, 0), (4, 0), (0, 2)$	5  $(1, 2), (4, 2)$ $(4, 5), (1, 5)$	6  $(0, 1), (3, 1), (0, 4)$
7  $(2, 2), (5, 2), (2, 5)$	8  $(0, 2), (2, 2)$ $(2, 5), (0, 5)$	9  $(0, 2), (2, 2)$ $(2, 4), (0, 4)$	10  $(1, 0), (5, 0), (1, 3)$	11  $(0, 1), (2, 1)$ $(2, 2), (0, 2)$	12  $(0, 2), (2, 2), (0, 4)$

Most Sort shapes by their properties, and use the properties of rectangles.

1  A, D, E	2 18 cm	3  B, E	4 3 cm	5  B, D	6 90°
7  B, D, F	8 5 cm	9  D, E	10 7 cm	11  B, C, D	12 28 cm

Some Recognise regular polygons, sort shapes, and find missing vertices.

1  A, D, E	2  A, D	3  $(2, 3)$	4  A, B, D, F	5  A, B, D, F	6  $(6, 6)$
7  B, D	8  A, B, C, E	9  $(6, 7)$	10  B, D, F	11  A, D, E, F	12  $(3, 1)$

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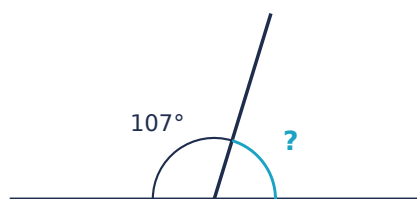
All Missing angles

Name _____

Find missing angles on a straight line and around a point.

Page 1 of 2

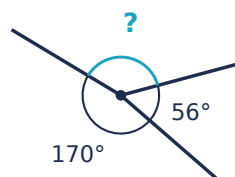
1 Find the missing angle on the straight line.



Not drawn accurately

 °

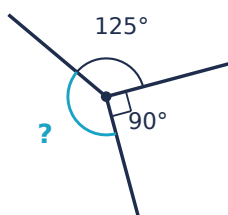
2 Find the missing angle around the point.



Not drawn accurately

 °

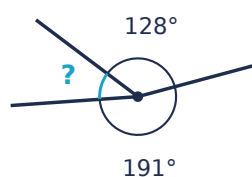
3 Find the missing angle around the point.



Not drawn accurately

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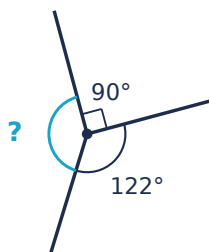
4 Find the missing angle around the point.



Not drawn accurately

 °

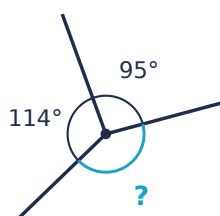
5 Find the missing angle around the point.



Not drawn accurately

 °

6 Find the missing angle around the point.



Not drawn accurately

 °

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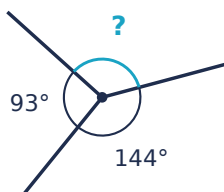
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All Missing angles (continued)

Find missing angles on a straight line and around a point.

Page 2 of 2

7 Find the missing angle around the point.



Not drawn accurately

 °

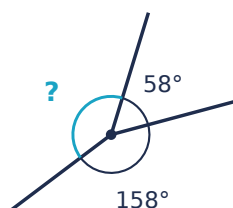
8 Find the missing angle on the straight line.



Not drawn accurately

 °

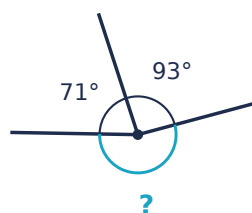
9 Find the missing angle around the point.



Not drawn accurately

 °

10 Find the missing angle around the point.



Not drawn accurately

 °

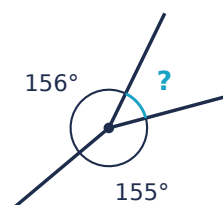
11 Find the missing angle on the straight line.



Not drawn accurately

 °

12 Find the missing angle around the point.



Not drawn accurately

 °

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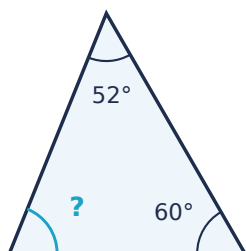
Most Missing angles

Find the missing angle in a triangle.

Name _____

Page 1 of 2

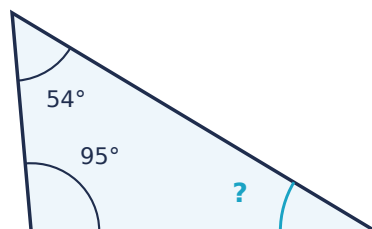
1 Find the missing angle in the triangle.



Not drawn accurately

 °

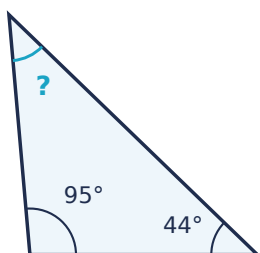
2 Find the missing angle in the triangle.



Not drawn accurately

 °

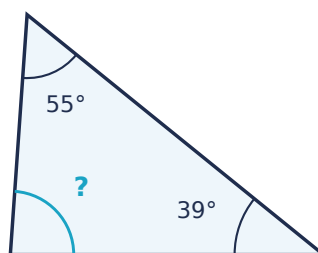
3 Find the missing angle in the triangle.



Not drawn accurately

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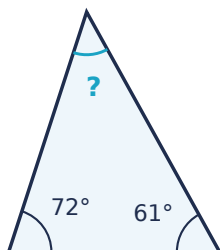
4 Find the missing angle in the triangle.



Not drawn accurately

 °

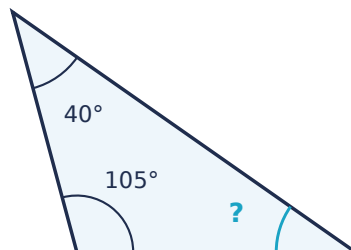
5 Find the missing angle in the triangle.



Not drawn accurately

 °

6 Find the missing angle in the triangle.



Not drawn accurately

 °

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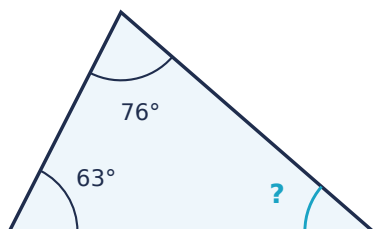
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Most Missing angles (continued)

Find the missing angle in a triangle.

Page 2 of 2

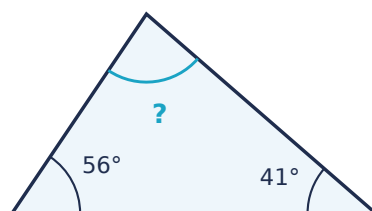
7 Find the missing angle in the triangle.



Not drawn accurately

 °

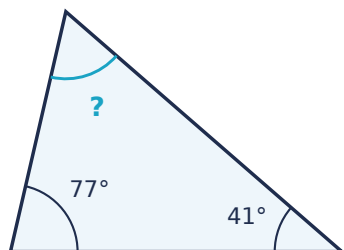
8 Find the missing angle in the triangle.



Not drawn accurately

 °

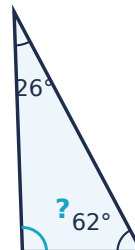
9 Find the missing angle in the triangle.



Not drawn accurately

 °

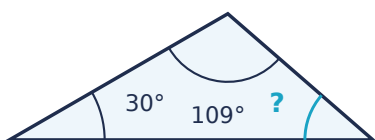
10 Find the missing angle in the triangle.



Not drawn accurately

 °

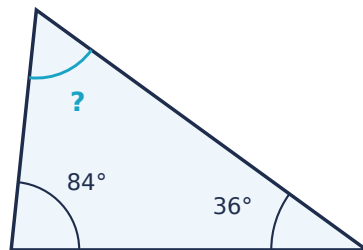
11 Find the missing angle in the triangle.



Not drawn accurately

 °

12 Find the missing angle in the triangle.



Not drawn accurately

 °

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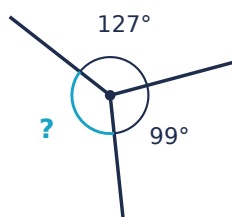
Some Missing angles

Name _____

Page 1 of 2

Find missing angles, including vertically opposite angles.

- 1 Find the missing angle around the point.



Not drawn accurately

 °

- 2 Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

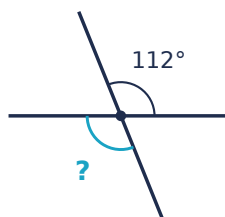
- 3 Find the missing angle on the straight line.



Not drawn accurately

 °

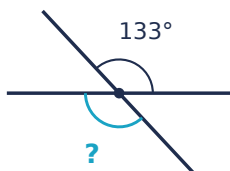
- 4 Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

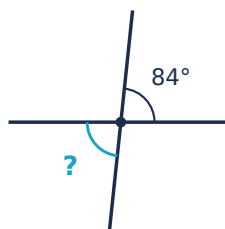
- 5 Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

- 6 Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

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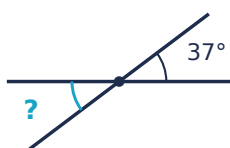
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Some Missing angles (continued)

Find missing angles, including vertically opposite angles.

Page 2 of 2

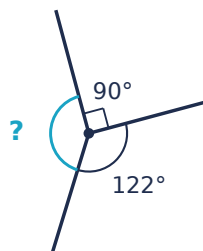
- 7** Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

- 8** Find the missing angle around the point.



Not drawn accurately

 °

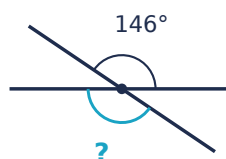
- 9** Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

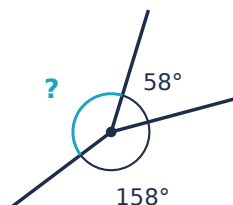
- 10** Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

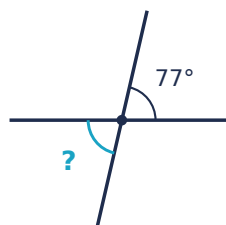
- 11** Find the missing angle around the point.



Not drawn accurately

 °

- 12** Two straight lines cross. Find the angle marked ?.



Not drawn accurately

 °

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Missing angles: answers

All Find missing angles on a straight line and around a point.

1 73° $180 - 107 = 73^\circ$

2 134° $360 - 170 - 56 = 134^\circ$

3 145° $360 - 125 - 90 = 145^\circ$

4 41° $360 - 128 - 191 = 41^\circ$

5 148° $360 - 90 - 122 = 148^\circ$

6 151° $360 - 95 - 114 = 151^\circ$

7 123° $360 - 93 - 144 = 123^\circ$

8 140° $180 - 40 = 140^\circ$

9 144° $360 - 58 - 158 = 144^\circ$

10 196° $360 - 93 - 71 = 196^\circ$

11 39° $180 - 141 = 39^\circ$

12 49° $360 - 156 - 155 = 49^\circ$

Most Find the missing angle in a triangle.

1 68° $180 - 60 - 52 = 68^\circ$

2 31° $180 - 95 - 54 = 31^\circ$

3 41° $180 - 95 - 44 = 41^\circ$

4 86° $180 - 39 - 55 = 86^\circ$

5 47° $180 - 72 - 61 = 47^\circ$

6 35° $180 - 105 - 40 = 35^\circ$

7 41° $180 - 63 - 76 = 41^\circ$

8 83° $180 - 56 - 41 = 83^\circ$

9 62° $180 - 77 - 41 = 62^\circ$

10 92° $180 - 62 - 26 = 92^\circ$

11 41° $180 - 30 - 109 = 41^\circ$

12 60° $180 - 84 - 36 = 60^\circ$

Some Find missing angles, including vertically opposite angles.

1 134° $360 - 127 - 99 = 134^\circ$

2 22° vertically opposite angles are equal

3 140° $180 - 40 = 140^\circ$

4 112° vertically opposite angles are equal

5 133° vertically opposite angles are equal

6 84° vertically opposite angles are equal

7 37° vertically opposite angles are equal

8 148° $360 - 90 - 122 = 148^\circ$

9 28° vertically opposite angles are equal

10 146° vertically opposite angles are equal

11 144° $360 - 58 - 158 = 144^\circ$

12 77° vertically opposite angles are equal

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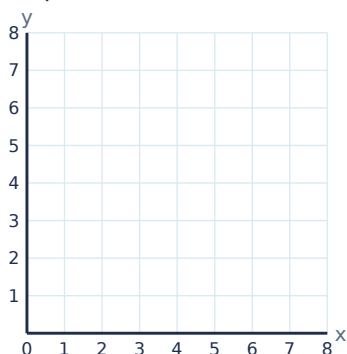
All Coordinates

Mark points on a grid using coordinates.

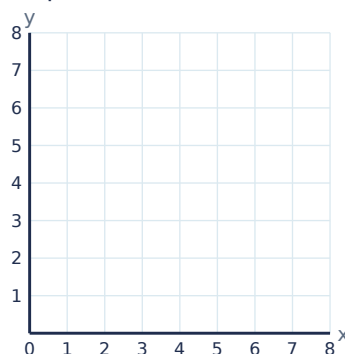
Name _____

Page 1 of 2

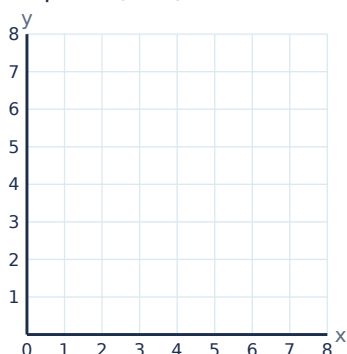
- 1 Mark the point (4, 3) with a cross.



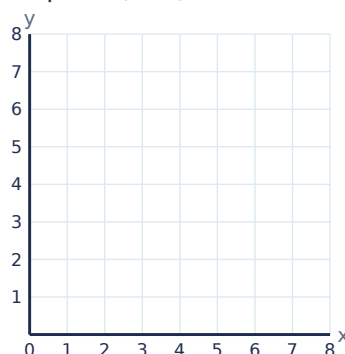
- 2 Mark the point (7, 0) with a cross.



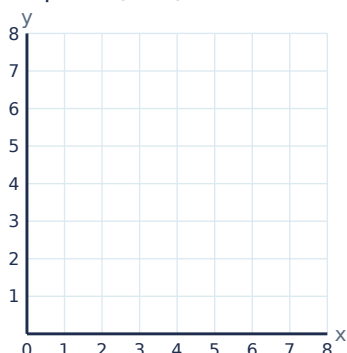
- 3 Mark the point (7, 5) with a cross.



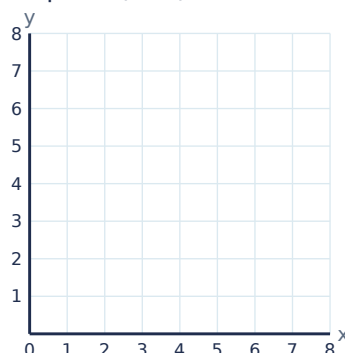
- 4 Mark the point (6, 1) with a cross.



- 5 Mark the point (8, 0) with a cross.



- 6 Mark the point (6, 8) with a cross.



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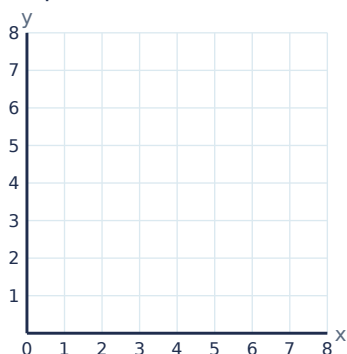
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All Coordinates (continued)

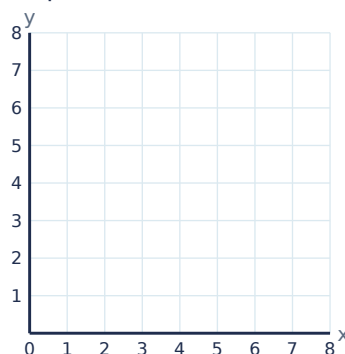
Mark points on a grid using coordinates.

Page 2 of 2

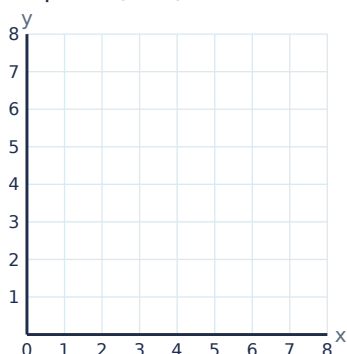
- 7** Mark the point (2, 1) with a cross.



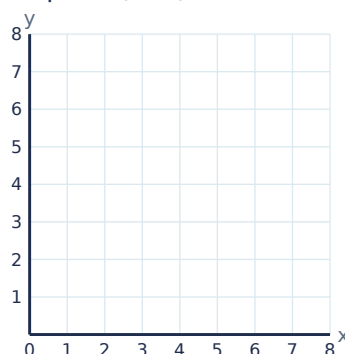
- 8** Mark the point (5, 1) with a cross.



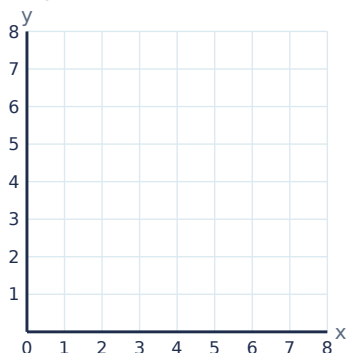
- 9** Mark the point (6, 3) with a cross.



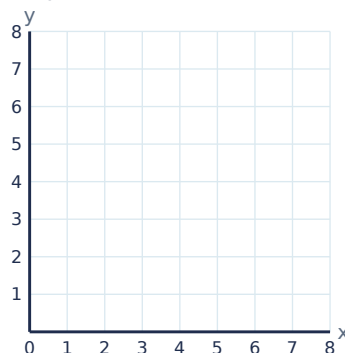
- 10** Mark the point (0, 1) with a cross.



- 11** Mark the point (6, 0) with a cross.



- 12** Mark the point (2, 8) with a cross.



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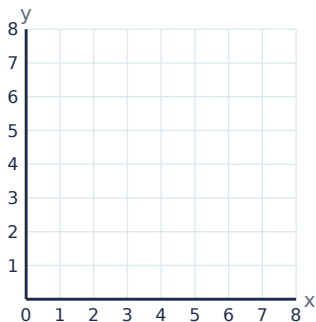
Most Coordinates

Name _____

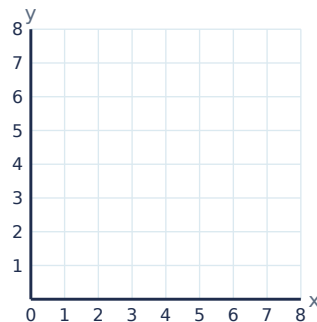
Page 1 of 2

Mark points and join them to make a shape.

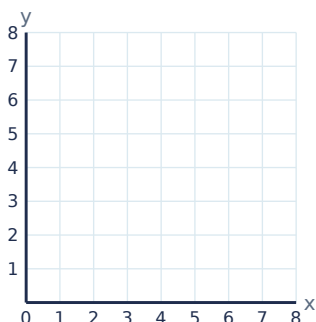
- 1** Mark these points and join them to make a rectangle: (2, 0), (5, 0), (5, 2), (2, 2).



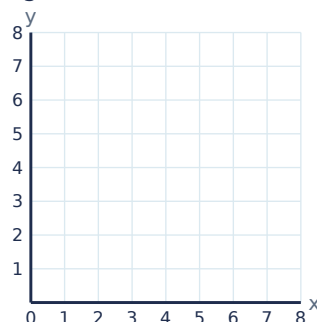
- 2** Mark these points and join them to make a pentagon: (0, 3), (2, 3), (2, 5), (1, 6), (0, 5).



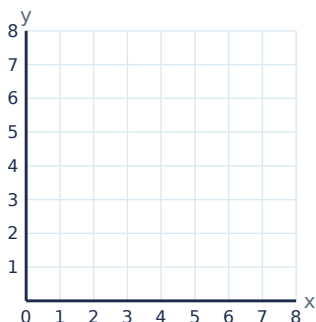
- 3** Mark these points and join them to make a pentagon: (4, 4), (6, 4), (6, 6), (5, 7), (4, 6).



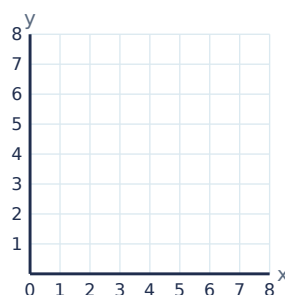
- 4** Mark these points and join them to make a parallelogram: (0, 2), (2, 2), (3, 4), (1, 4).



- 5** Mark these points and join them to make a rectangle: (2, 5), (5, 5), (5, 7), (2, 7).



- 6** Mark these points and join them to make an L-shape: (0, 3), (3, 3), (3, 4), (1, 4), (1, 6), (0, 6).



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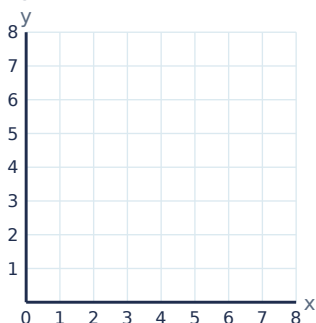
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Most Coordinates (continued)

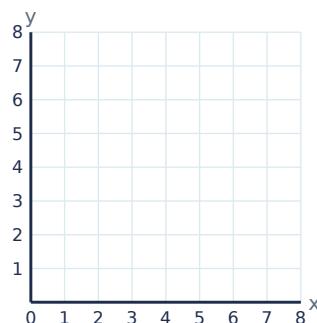
Mark points and join them to make a shape.

Page 2 of 2

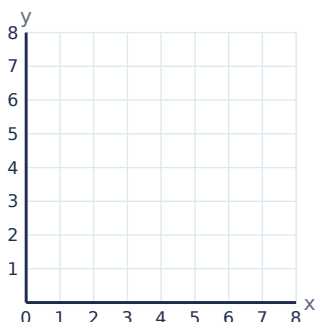
- 7** Mark these points and join them to make a parallelogram: (5, 6), (7, 6), (8, 8), (6, 8).



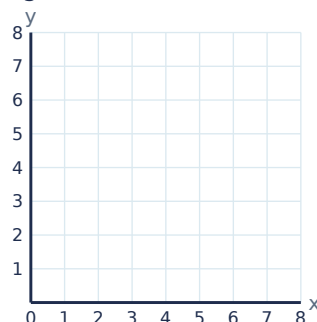
- 8** Mark these points and join them to make a triangle: (0, 5), (3, 5), (0, 7).



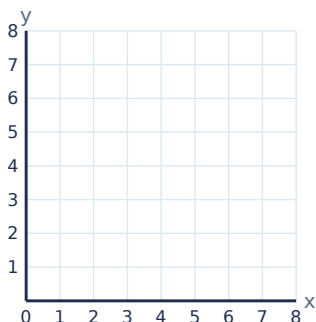
- 9** Mark these points and join them to make a trapezium: (0, 5), (3, 5), (2, 7), (0, 7).



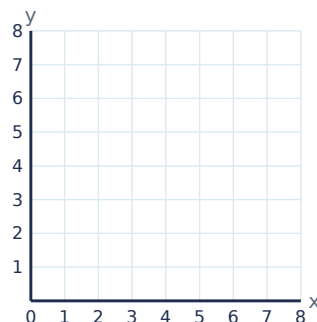
- 10** Mark these points and join them to make a parallelogram: (2, 1), (4, 1), (5, 3), (3, 3).



- 11** Mark these points and join them to make a triangle: (0, 2), (2, 2), (1, 4).



- 12** Mark these points and join them to make a parallelogram: (0, 6), (2, 6), (3, 8), (1, 8).


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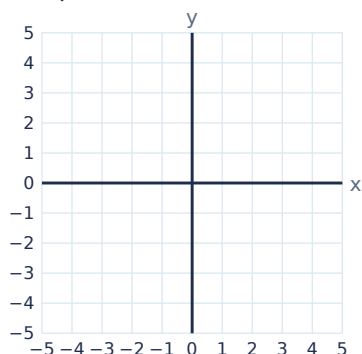
Some Coordinates

Use coordinates in all four quadrants.

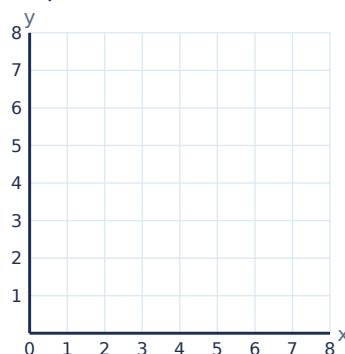
Name _____

Page 1 of 2

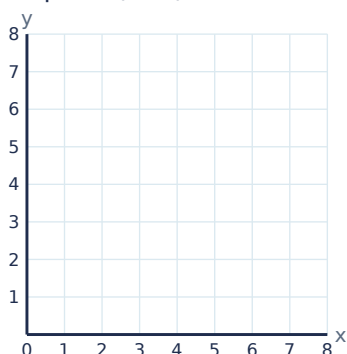
- 1 Mark the point $(-1, -5)$ with a cross.



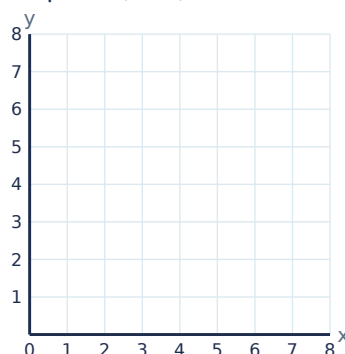
- 2 Mark the point $(0, 4)$ with a cross.



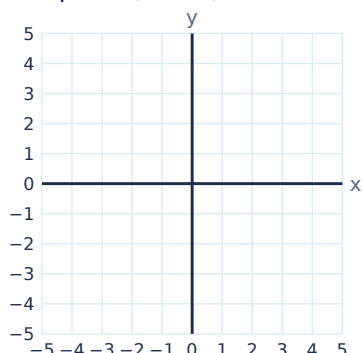
- 3 Mark the point $(5, 7)$ with a cross.



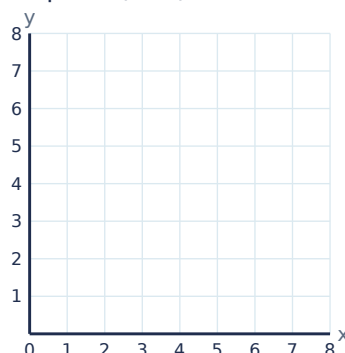
- 4 Mark the point $(1, 2)$ with a cross.



- 5 Mark the point $(-1, 4)$ with a cross.



- 6 Mark the point $(8, 8)$ with a cross.



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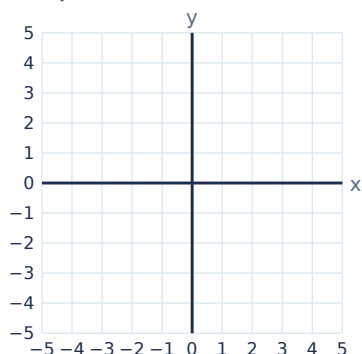
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Some Coordinates (continued)

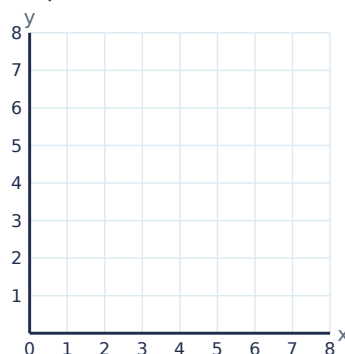
Use coordinates in all four quadrants.

Page 2 of 2

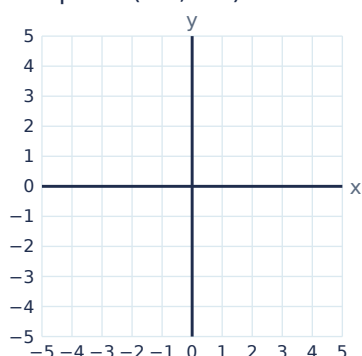
- 7** Mark the point $(-4, 3)$ with a cross.



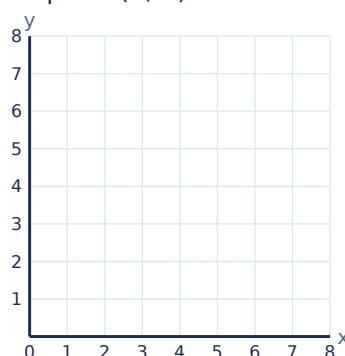
- 8** Mark the point $(3, 2)$ with a cross.



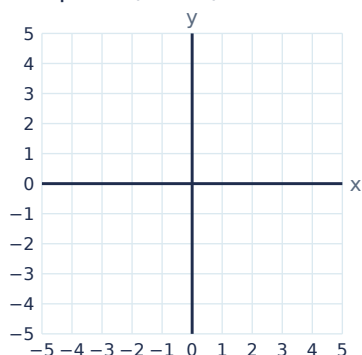
- 9** Mark the point $(-4, -1)$ with a cross.



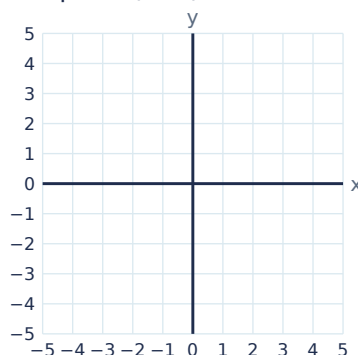
- 10** Mark the point $(0, 7)$ with a cross.



- 11** Mark the point $(5, -5)$ with a cross.



- 12** Mark the point $(5, 1)$ with a cross.

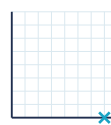
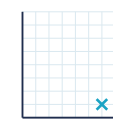
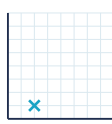
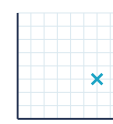
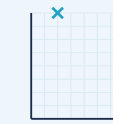


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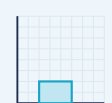
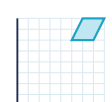
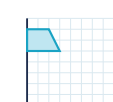
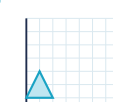
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Coordinates: answers

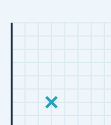
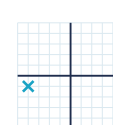
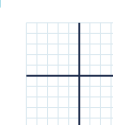
All Mark points on a grid using coordinates.

1  (4, 3)	2  (7, 0)	3  (7, 5)	4  (6, 1)	5  (8, 0)	6  (6, 8)
7  (2, 1)	8  (5, 1)	9  (6, 3)	10  (0, 1)	11  (6, 0)	12  (2, 8)

Most Mark points and join them to make a shape.

1  (2, 0), (5, 0) (5, 2), (2, 2)	2  (0, 3), (2, 3), (2, 5) (1, 6), (0, 5)	3  (4, 4), (6, 4), (6, 6) (5, 7), (4, 6)	4  (0, 2), (2, 2) (3, 4), (1, 4)	5  (2, 5), (5, 5) (5, 7), (2, 7)	6  (0, 3), (3, 3), (3, 4) (1, 4), (1, 6), (0, 6)
7  (5, 6), (7, 6) (8, 8), (6, 8)	8  (0, 5), (3, 5), (0, 7)	9  (0, 5), (3, 5) (2, 7), (0, 7)	10  (2, 1), (4, 1) (5, 3), (3, 3)	11  (0, 2), (2, 2), (1, 4)	12  (0, 6), (2, 6) (3, 8), (1, 8)

Some Use coordinates in all four quadrants.

1  (-1, -5)	2  (0, 4)	3  (5, 7)	4  (1, 2)	5  (-1, 4)	6  (8, 8)
7  (-4, 3)	8  (3, 2)	9  (-4, -1)	10  (0, 7)	11  (5, -5)	12  (5, 1)

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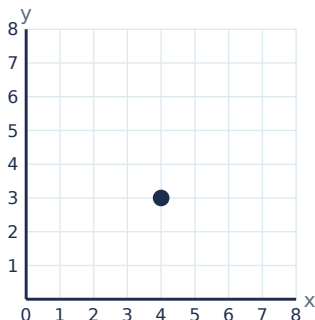
All Translation and reflection

Name _____

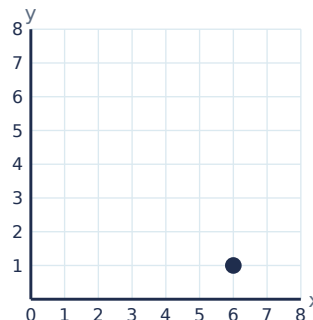
Page 1 of 2

Translate a point on a grid.

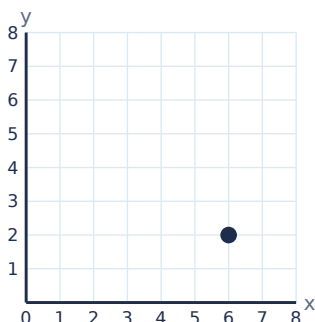
- 1** The point (4, 3) is translated 4 left and 1 up. Mark where it lands with a cross.



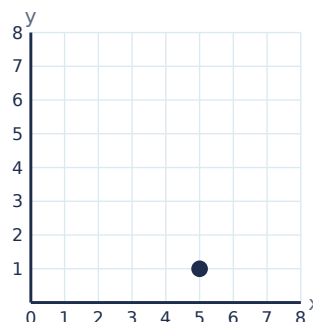
- 2** The point (6, 1) is translated 2 up. Mark where it lands with a cross.



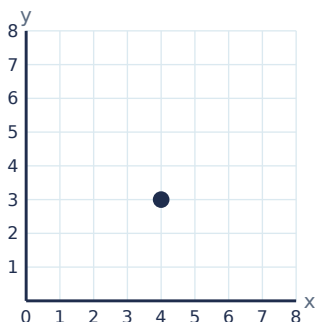
- 3** The point (6, 2) is translated 2 right and 1 down. Mark where it lands with a cross.



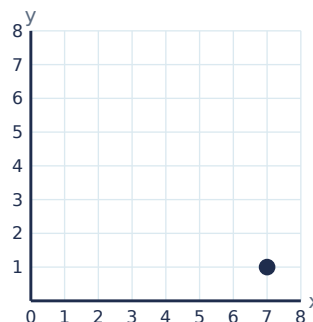
- 4** The point (5, 1) is translated 2 left and 2 up. Mark where it lands with a cross.



- 5** The point (4, 3) is translated 3 right and 1 up. Mark where it lands with a cross.



- 6** The point (7, 1) is translated 1 down. Mark where it lands with a cross.


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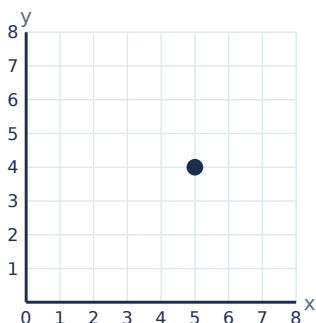
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All Translation and reflection (continued)

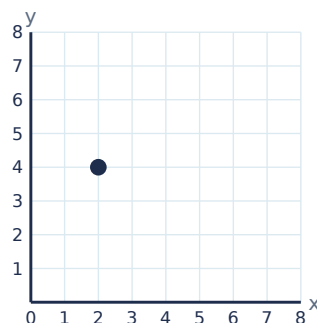
Translate a point on a grid.

Page 2 of 2

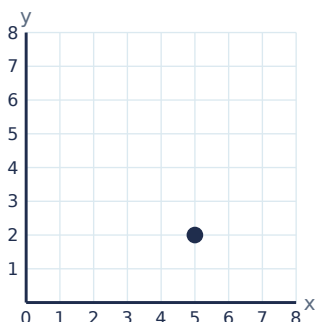
- 7** The point (5, 4) is translated 2 right and 2 up. Mark where it lands with a cross.



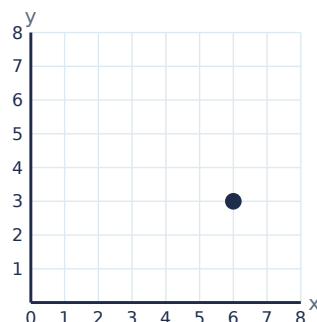
- 8** The point (2, 4) is translated 2 left and 2 up. Mark where it lands with a cross.



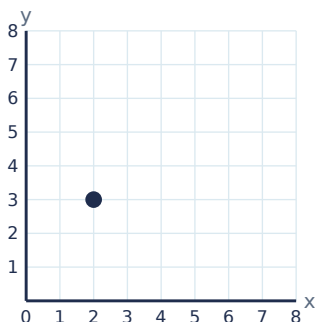
- 9** The point (5, 2) is translated 3 right and 1 down. Mark where it lands with a cross.



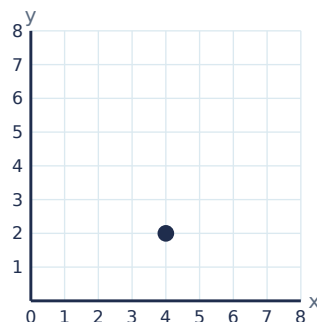
- 10** The point (6, 3) is translated 2 left and 2 up. Mark where it lands with a cross.



- 11** The point (2, 3) is translated 2 right and 4 up. Mark where it lands with a cross.



- 12** The point (4, 2) is translated 2 right and 2 up. Mark where it lands with a cross.


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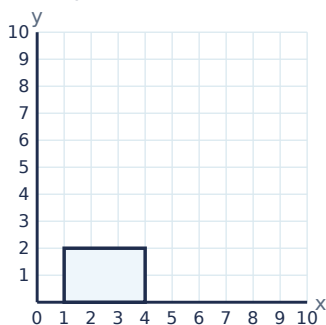
Most Translation and reflection

Name _____

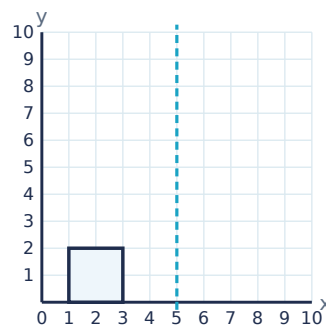
Page 1 of 2

Translate and reflect shapes on a grid.

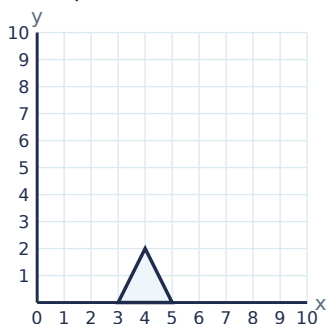
- 1** Translate the shape 4 right and 5 up. Draw the new shape.



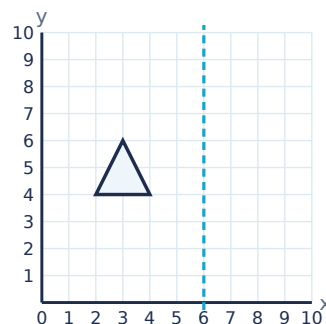
- 2** Reflect the shape in the mirror line $x = 5$. Draw the reflection.



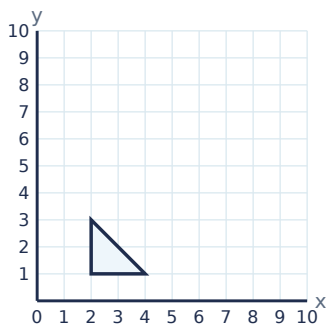
- 3** Translate the shape 5 right and 4 up. Draw the new shape.



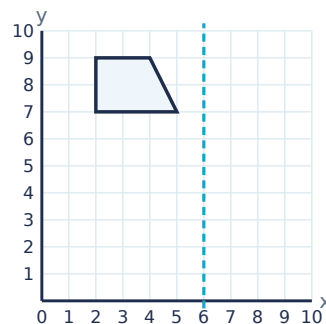
- 4** Reflect the shape in the mirror line $x = 6$. Draw the reflection.



- 5** Translate the shape 3 right and 1 up. Draw the new shape.



- 6** Reflect the shape in the mirror line $x = 6$. Draw the reflection.


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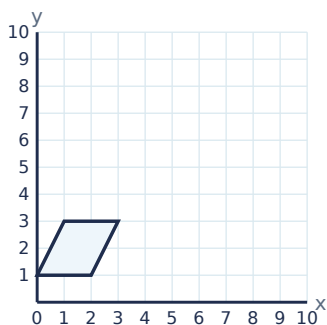
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Most Translation and reflection (continued)

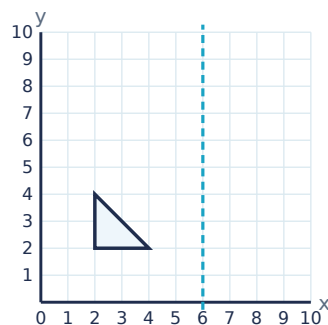
Translate and reflect shapes on a grid.

Page 2 of 2

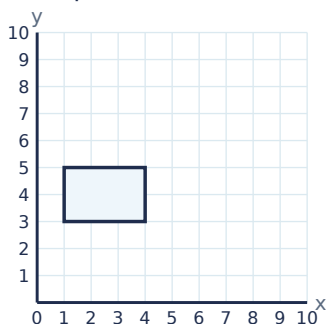
- 7** Translate the shape 4 right. Draw the new shape.



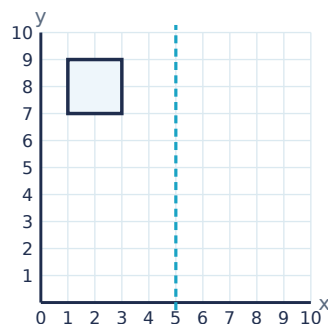
- 8** Reflect the shape in the mirror line $x = 6$. Draw the reflection.



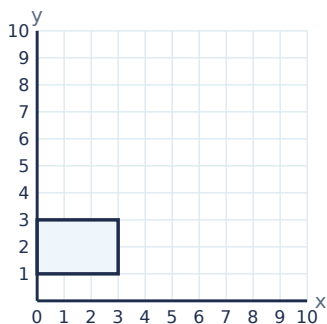
- 9** Translate the shape 4 right and 1 up. Draw the new shape.



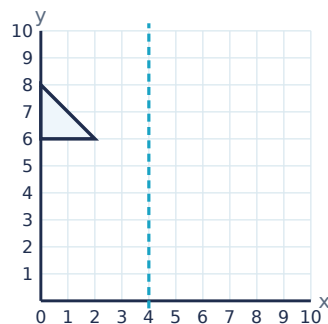
- 10** Reflect the shape in the mirror line $x = 5$. Draw the reflection.



- 11** Translate the shape 3 right and 6 up. Draw the new shape.



- 12** Reflect the shape in the mirror line $x = 4$. Draw the reflection.



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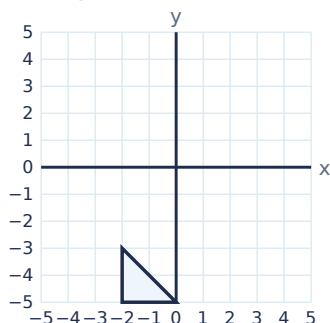
Some Translation and reflection

Name _____

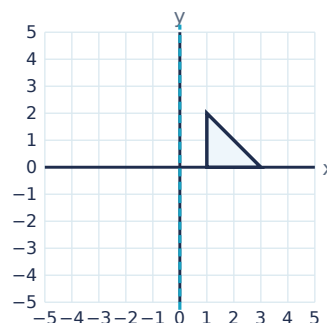
Page 1 of 2

Translate and reflect shapes in all four quadrants.

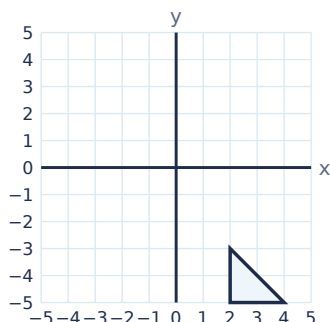
- 1** Translate the shape 2 right and 3 up. Draw the new shape.



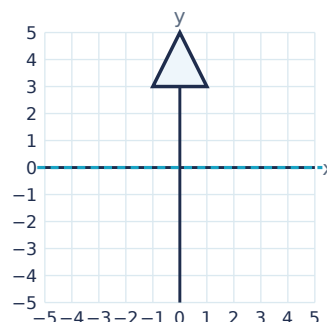
- 2** Reflect the shape in the y-axis. Draw the reflection.



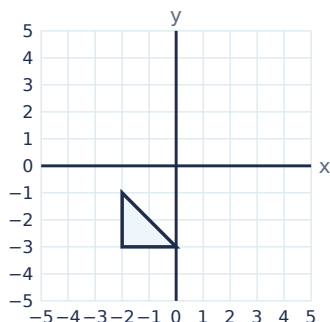
- 3** Translate the shape 6 left. Draw the new shape.



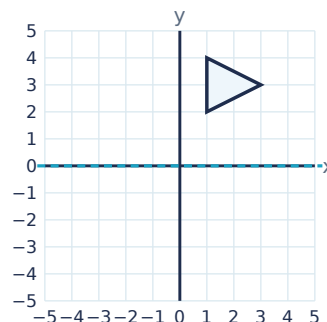
- 4** Reflect the shape in the x-axis. Draw the reflection.



- 5** Translate the shape 3 right and 1 down. Draw the new shape.



- 6** Reflect the shape in the x-axis. Draw the reflection.



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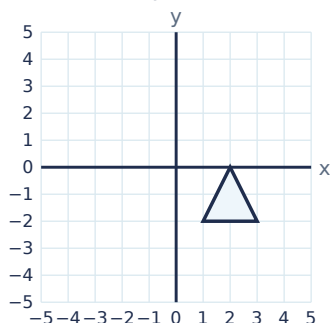
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Some Translation and reflection (continued)

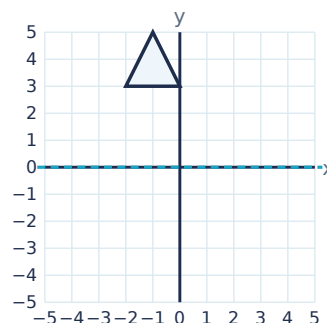
Translate and reflect shapes in all four quadrants.

Page 2 of 2

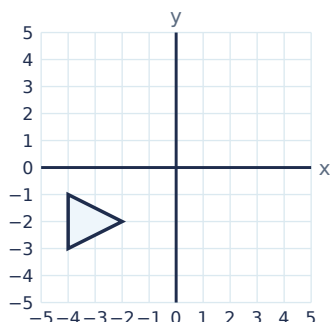
- 7** Translate the shape 1 right and 3 down. Draw the new shape.



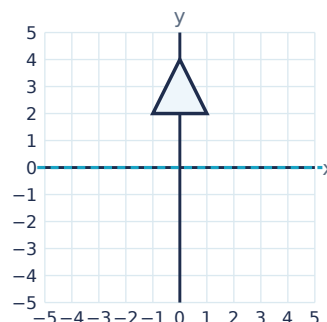
- 8** Reflect the shape in the x-axis. Draw the reflection.



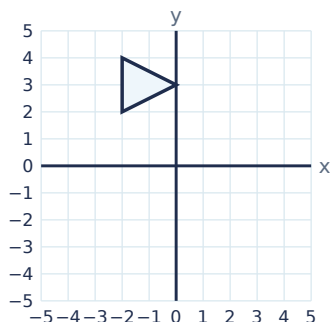
- 9** Translate the shape 2 right. Draw the new shape.



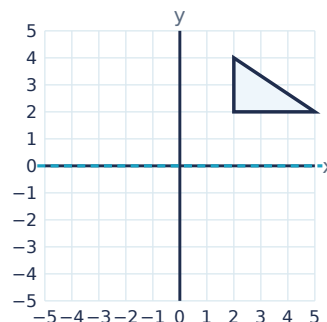
- 10** Reflect the shape in the x-axis. Draw the reflection.



- 11** Translate the shape 2 right and 3 down. Draw the new shape.



- 12** Reflect the shape in the x-axis. Draw the reflection.

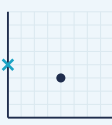
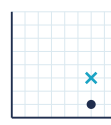
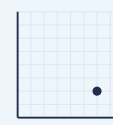
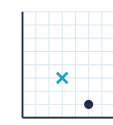
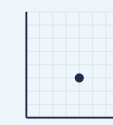
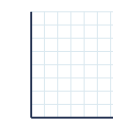
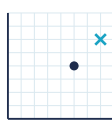
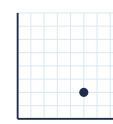
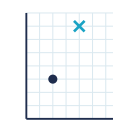


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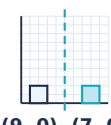
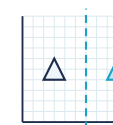
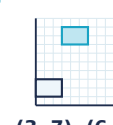
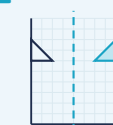
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Translation and reflection: answers

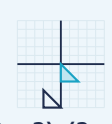
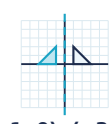
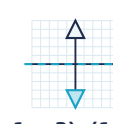
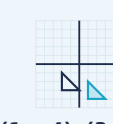
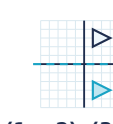
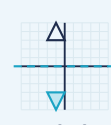
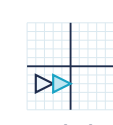
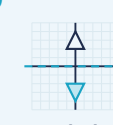
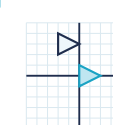
All Translate a point on a grid.

1  $(0, 4)$	2  $(6, 3)$	3  $(8, 1)$	4  $(3, 3)$	5  $(7, 4)$	6  $(7, 0)$
7  $(7, 6)$	8  $(0, 6)$	9  $(8, 1)$	10  $(4, 5)$	11  $(4, 7)$	12  $(6, 4)$

Most Translate and reflect shapes on a grid.

1  $(5, 5), (8, 5)$ $(8, 7), (5, 7)$	2  $(9, 0), (7, 0)$ $(7, 2), (9, 2)$	3  $(8, 4), (10, 4), (9, 6)$	4  $(10, 4), (8, 4), (9, 6)$	5  $(5, 2), (7, 2), (5, 4)$	6  $(10, 7), (7, 7)$ $(8, 9), (10, 9)$
7  $(4, 1), (6, 1)$ $(7, 3), (5, 3)$	8  $(10, 2), (8, 2), (10, 4)$	9  $(5, 4), (8, 4)$ $(8, 6), (5, 6)$	10  $(9, 7), (7, 7)$ $(7, 9), (9, 9)$	11  $(3, 7), (6, 7)$ $(6, 9), (3, 9)$	12  $(8, 6), (6, 6), (8, 8)$

Some Translate and reflect shapes in all four quadrants.

1  $(0, -2), (2, -2)$ $(0, 0)$	2  $(-1, 0), (-3, 0)$ $(-1, 2)$	3  $(-4, -5), (-2, -5)$ $(-4, -3)$	4  $(-1, -3), (1, -3)$ $(0, -5)$	5  $(1, -4), (3, -4)$ $(1, -2)$	6  $(1, -2), (3, -2)$ $(1, -4)$
7  $(2, -5), (4, -5)$ $(3, -3)$	8  $(-2, -3), (0, -3)$ $(-1, -5)$	9  $(-2, -3), (0, -2)$ $(-2, -1)$	10  $(-1, -2), (1, -2)$ $(0, -4)$	11  $(0, -1), (2, 0), (0, 1)$	12  $(2, -2), (5, -2)$ $(2, -4)$

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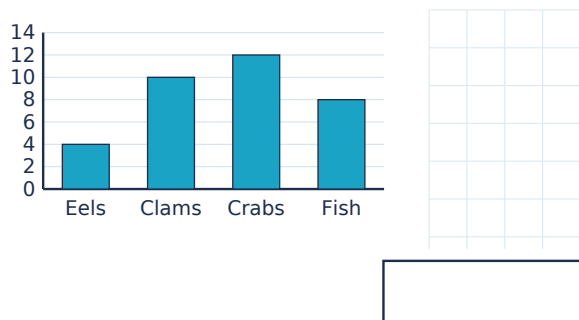
All Charts and graphs

Read bar charts and draw bars to show data.

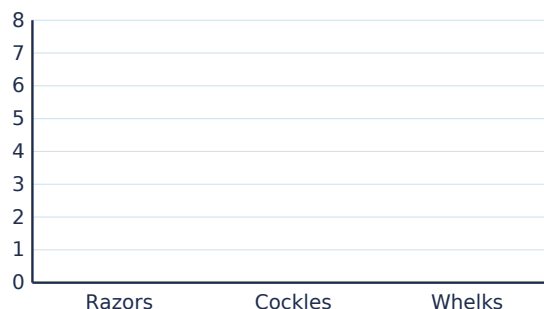
Name _____

Page 1 of 2

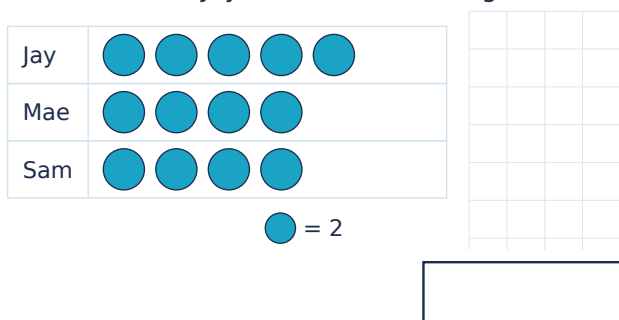
- 1** The bar chart shows the creatures the divers counted. How many crabs were there?



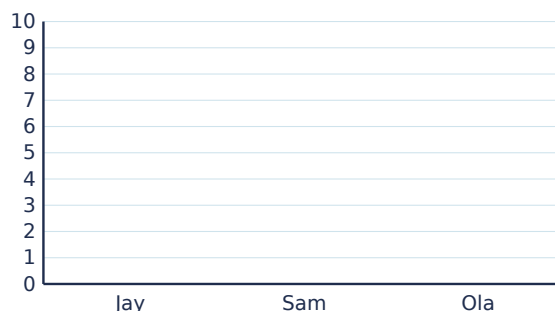
- 2** Draw bars to show this data: Razors 5, Cockles 3, Whelks 1.



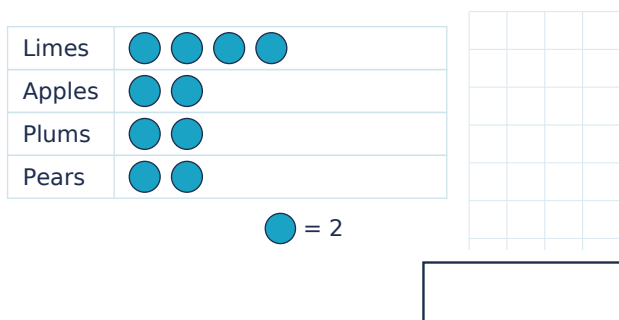
- 3** The pictogram shows how many books each child read. Each ● stands for 2. How many books did Jay and Sam read altogether?



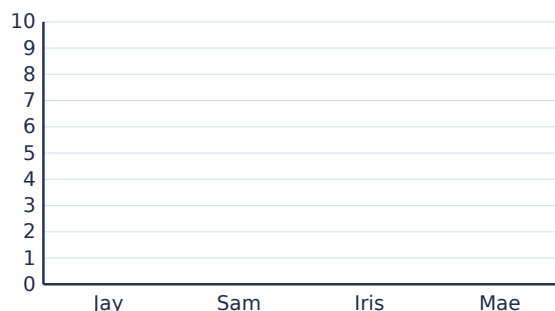
- 4** Draw bars to show this data: Jay 9, Sam 7, Ola 6.



- 5** The pictogram shows the fruit sold at the stall. Each ● stands for 2. How many apples were there?



- 6** Draw bars to show this data: Jay 6, Sam 3, Iris 2, Mae 3.


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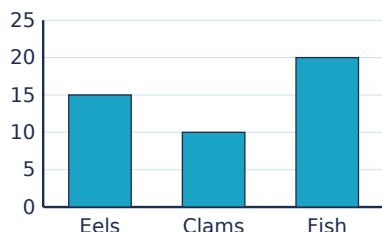
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All Charts and graphs (continued)

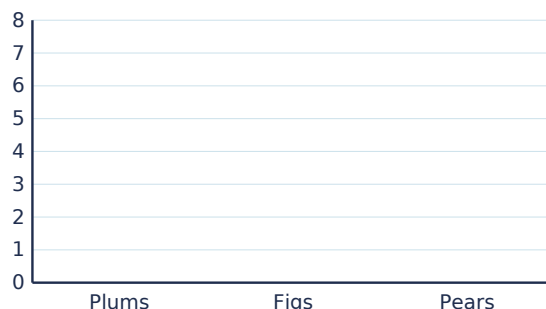
Read bar charts and draw bars to show data.

Page 2 of 2

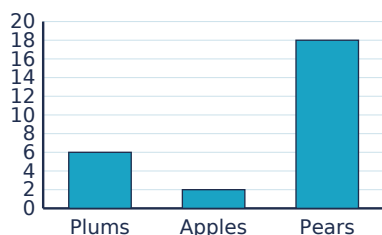
- 7** The bar chart shows the creatures the divers counted. How many eels were there?



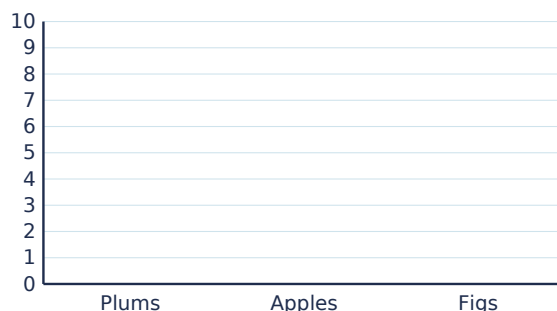
- 8** Draw bars to show this data: Plums 3, Figs 6, Pears 4.



- 9** The bar chart shows the fruit sold at the stall. How many pears were there?



- 10** Draw bars to show this data: Plums 4, Apples 1, Figs 10.



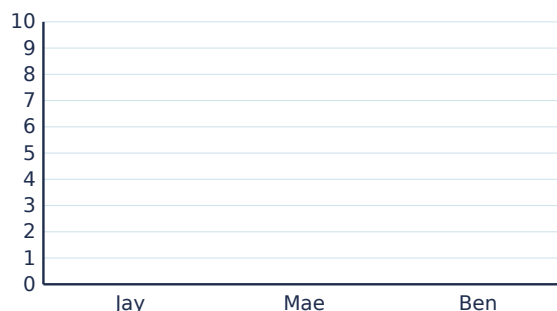
- 11** The pictogram shows how many books each child read. Each ● stands for 2. How many books did Ben read?

Mae	● ● ● ● ●
Ben	● ● ● ● ●
Sam	● ●

● = 2



- 12** Draw bars to show this data: Jay 8, Mae 8, Ben 3.


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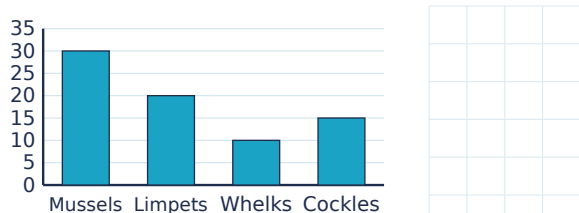
Most Charts and graphs

Use scales on bar charts, and read line graphs.

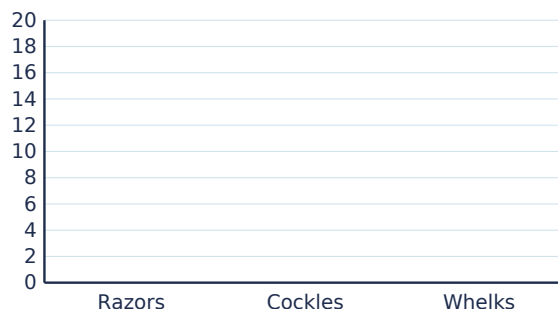
Name _____

Page 1 of 2

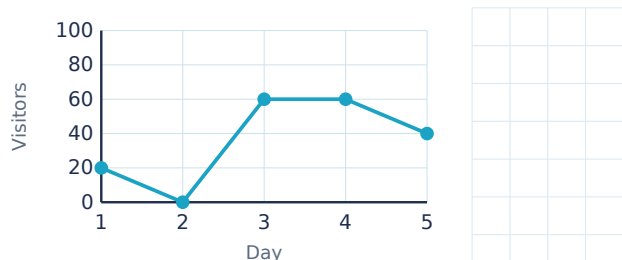
- 1** The bar chart shows the shells found on the beach. How many limpets and whelks were there altogether?



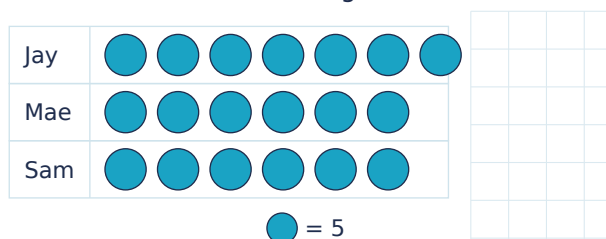
- 2** Draw bars to show this data: Razors 1, Cockles 4, Whelks 11.



- 3** Read the line graph. What was the visitors at day 3?

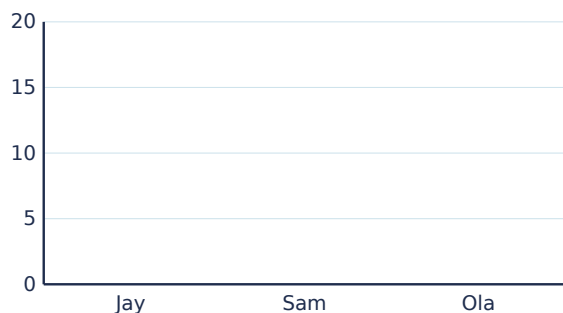


- 4** The pictogram shows how many books each child read. Each ● stands for 5. How many books were read altogether?

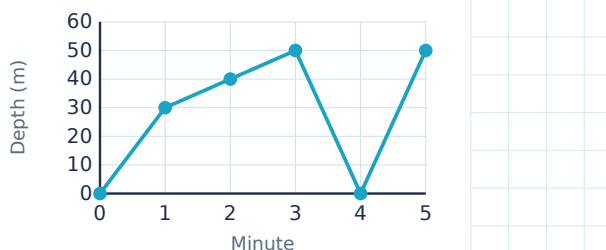


● = 5

- 5** Draw bars to show this data: Jay 16, Sam 15, Ola 12.



- 6** Read the line graph. What was the depth at minute 4?



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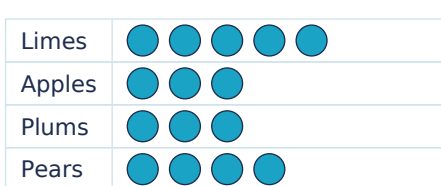
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Most Charts and graphs (continued)

Use scales on bar charts, and read line graphs.

Page 2 of 2

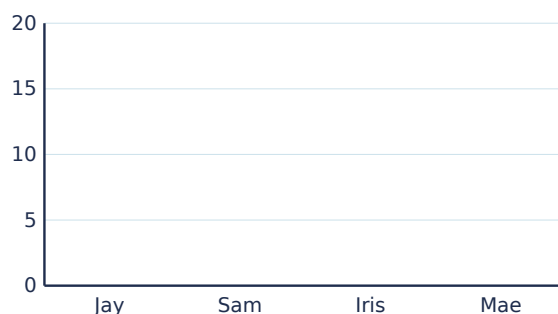
- 7** The pictogram shows the fruit sold at the stall. Each ● stands for 5. How many more limes than pears were there?



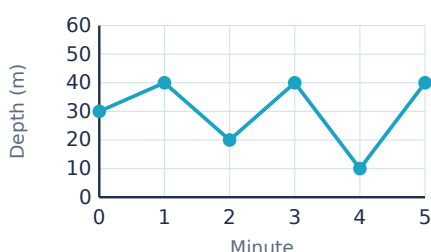
● = 5



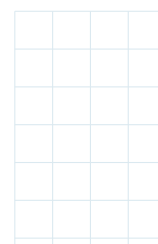
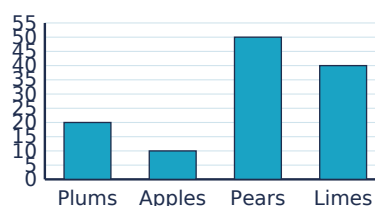
- 8** Draw bars to show this data: Jay 11, Sam 10, Iris 4, Mae 10.



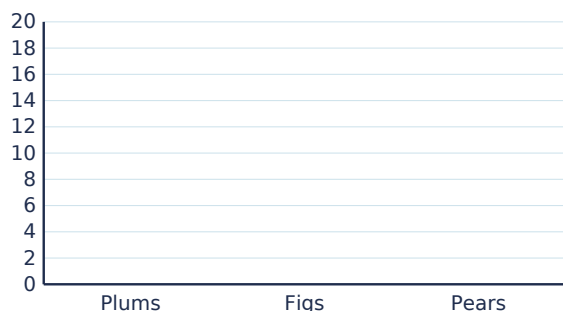
- 9** Read the line graph. What is the difference between the highest and lowest value?



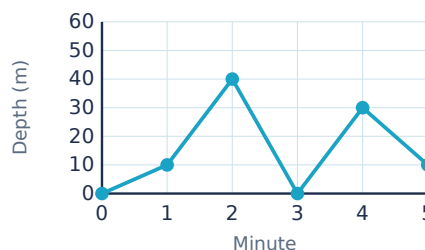
- 10** The bar chart shows the fruit sold at the stall. How many plums and apples were there altogether?



- 11** Draw bars to show this data: Plums 7, Figs 14, Pears 7.



- 12** Read the line graph. How much did the depth rise from minute 3 to minute 4?



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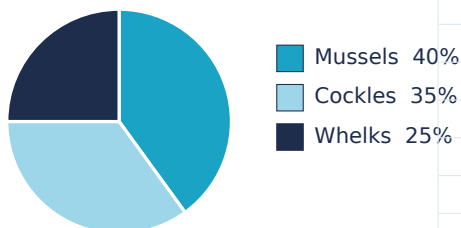
Some Charts and graphs

Interpret pie charts and line graphs.

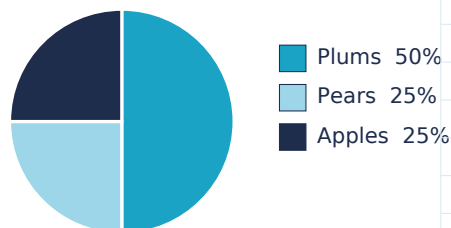
Name _____

Page 1 of 2

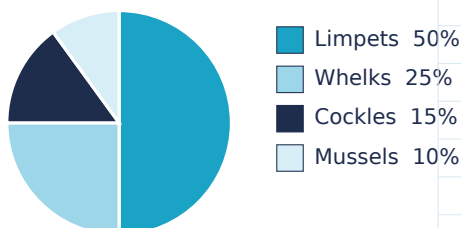
- 1 There were 40 shells altogether. How many more were mussels than cockles?



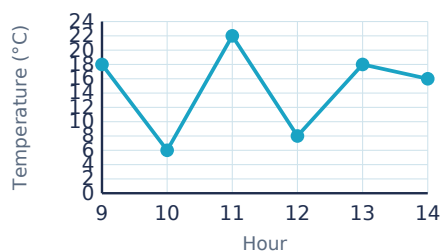
- 2 There were 120 pieces of fruit altogether. How many were apples?



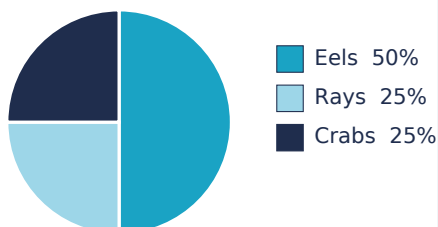
- 3 There were 200 shells altogether. How many were cockles?



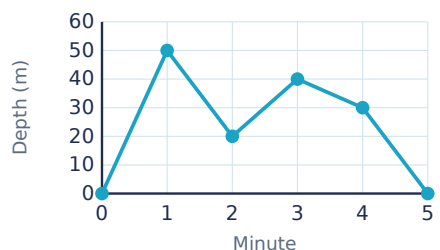
- 4 Read the line graph. How much did the temperature fall from hour 11 to hour 12?



- 5 There were 240 sea creatures altogether. How many more were eels than crabs?



- 6 Read the line graph. What is the difference between the highest and lowest value?



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Some Charts and graphs (continued)

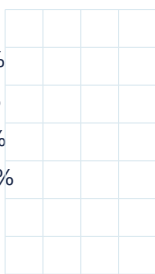
Interpret pie charts and line graphs.

Page 2 of 2

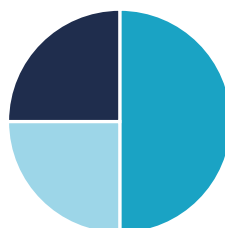
- 7** There were 160 pieces of fruit altogether. How many were pears?



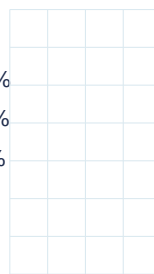
■ Limes 40%
■ Pears 30%
■ Plums 20%
■ Apples 10%



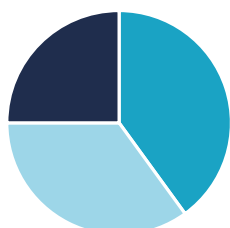
- 8** There were 80 pieces of fruit altogether. How many were limes?



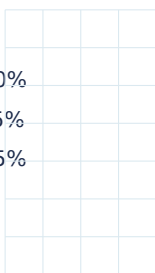
■ Plums 50%
■ Limes 25%
■ Pears 25%



- 9** There were 200 shells altogether. How many were limpets?



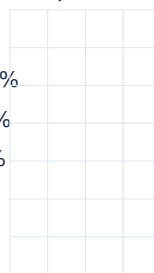
■ Limpets 40%
■ Cockles 35%
■ Mussels 25%



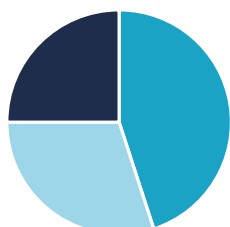
- 10** There were 120 pieces of fruit altogether. How many more were apples than plums?



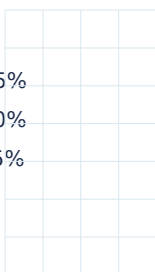
■ Apples 50%
■ Plums 25%
■ Pears 25%



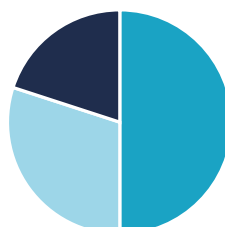
- 11** There were 240 shells altogether. How many were cockles?



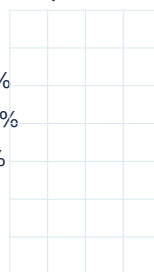
■ Limpets 45%
■ Mussels 30%
■ Cockles 25%



- 12** There were 200 pieces of fruit altogether. How many more were plums than pears?



■ Plums 50%
■ Apples 30%
■ Pears 20%

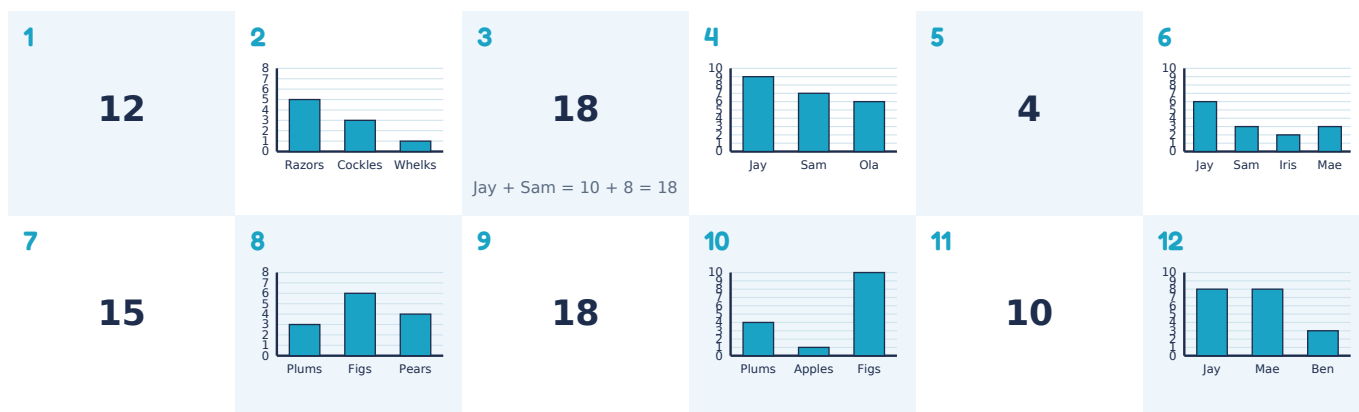


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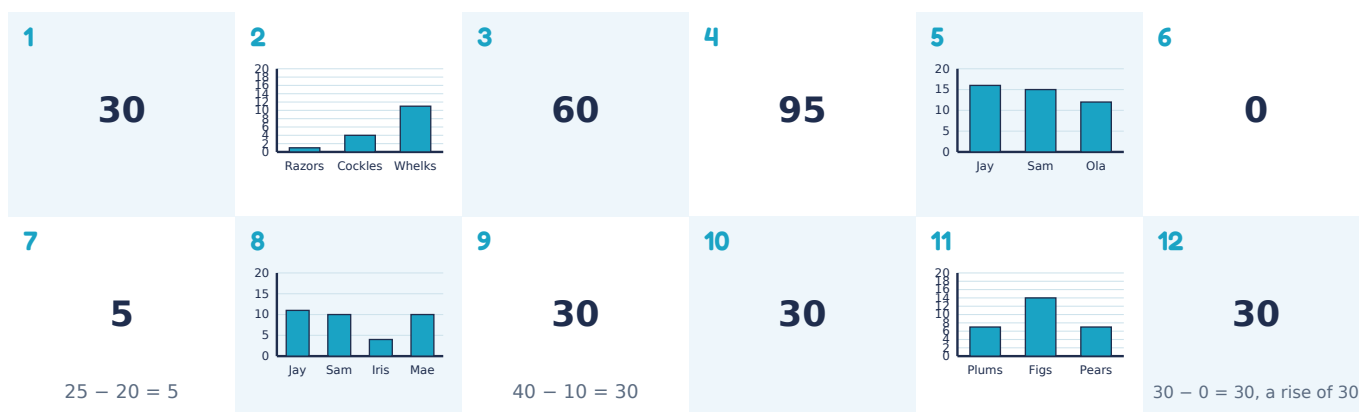
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Charts and graphs: answers

All Read bar charts and draw bars to show data.



Most Use scales on bar charts, and read line graphs.



Some Interpret pie charts and line graphs.

1 2 40% of 40 = 16, 35% = 14; difference 2	2 30 25% of 120 = 30
3 30 15% of 200 = 30	4 14 $8 - 22 = -14$, a fall of 14
5 60 50% of 240 = 120, 25% = 60; difference 60	6 50 $50 - 0 = 50$
7 48 30% of 160 = 48	8 20 25% of 80 = 20
9 80 40% of 200 = 80	10 30 50% of 120 = 60, 25% = 30; difference 30
11 60 25% of 240 = 60	12 60 50% of 200 = 100, 20% = 40; difference 60

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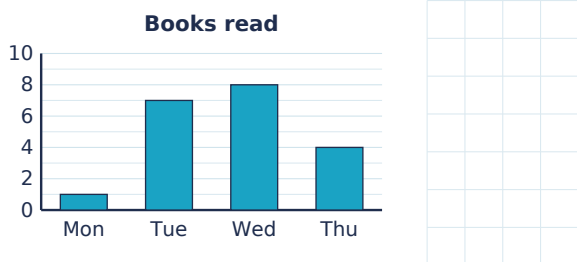
All Mean

Name _____

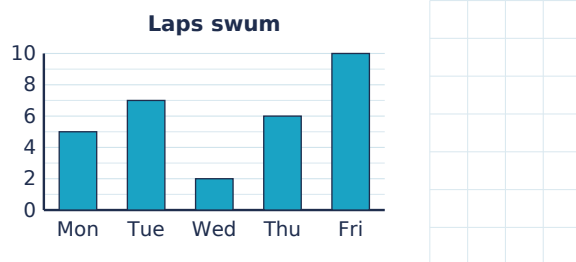
Page 1 of 2

Find the mean from a bar chart.

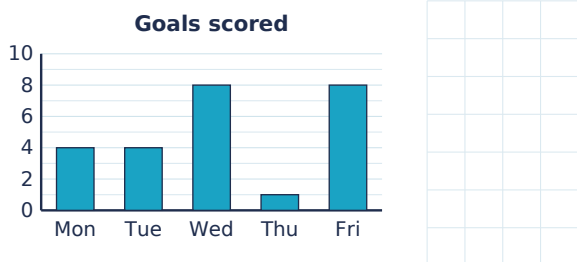
- 1 The bar chart shows books read each day. Find the mean number of books.



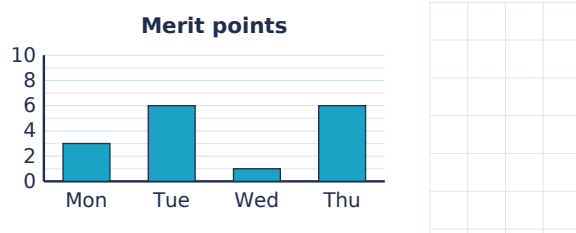
- 2 The bar chart shows laps swum each day. Find the mean number of laps.



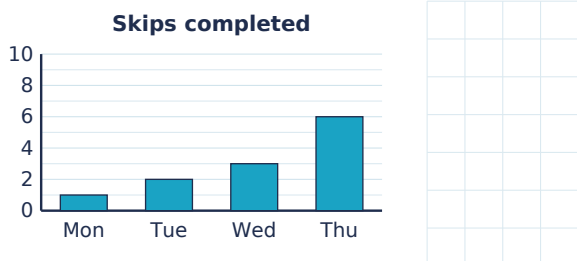
- 3 The bar chart shows goals scored each day. Find the mean number of goals.



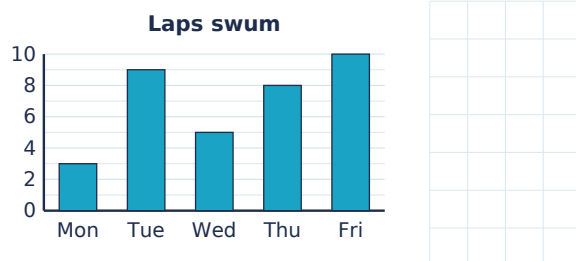
- 4 The bar chart shows merit points earned each day. Find the mean number of merit points.



- 5 The bar chart shows skips completed each day. Find the mean number of skips.



- 6 The bar chart shows laps swum each day. Find the mean number of laps.



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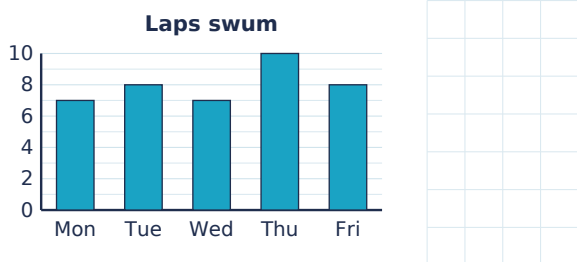
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All Mean (continued)

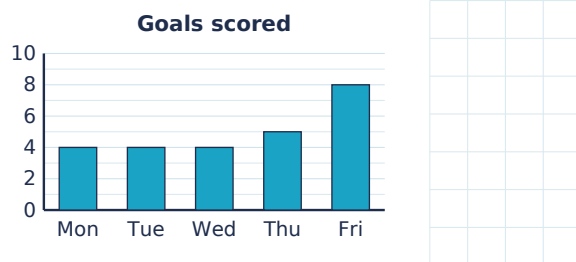
Find the mean from a bar chart.

Page 2 of 2

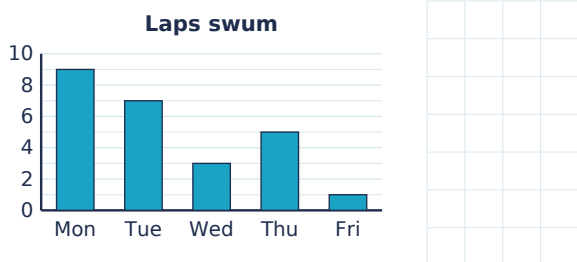
- 7** The bar chart shows laps swum each day. Find the mean number of laps.



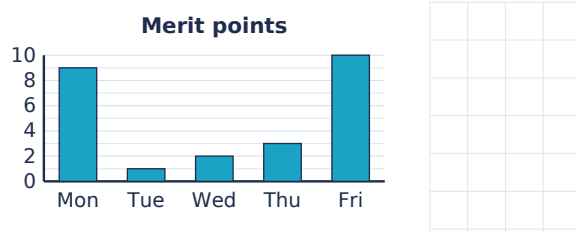
- 8** The bar chart shows goals scored each day. Find the mean number of goals.



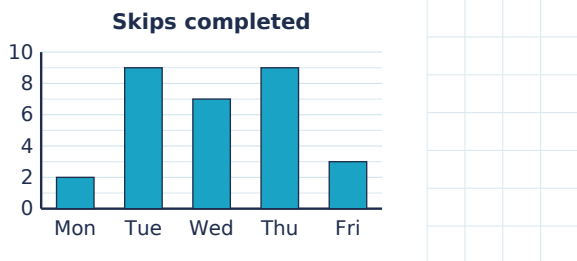
- 9** The bar chart shows laps swum each day. Find the mean number of laps.



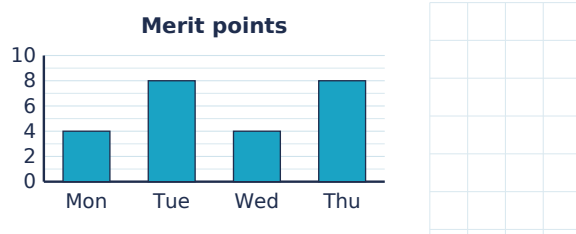
- 10** The bar chart shows merit points earned each day. Find the mean number of merit points.



- 11** The bar chart shows skips completed each day. Find the mean number of skips.



- 12** The bar chart shows merit points earned each day. Find the mean number of merit points.



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Most Mean

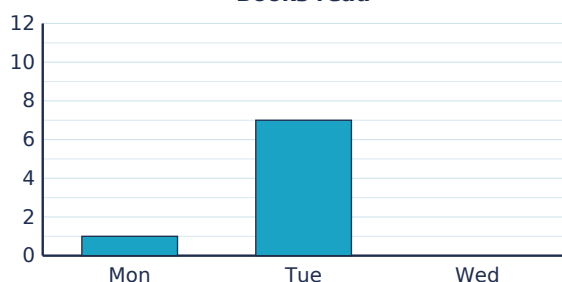
Find a missing value to give a mean.

Name _____

Page 1 of 2

- 1** One bar is missing. Draw it so the mean number of books across all 3 days is 5.

Books read



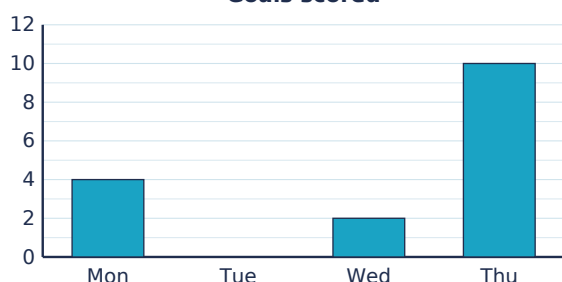
- 2** One bar is missing. Draw it so the mean number of merit points across all 4 days is 7.

Merit points



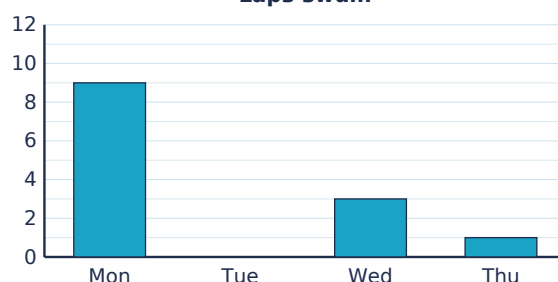
- 3** One bar is missing. Draw it so the mean number of goals across all 4 days is 6.

Goals scored



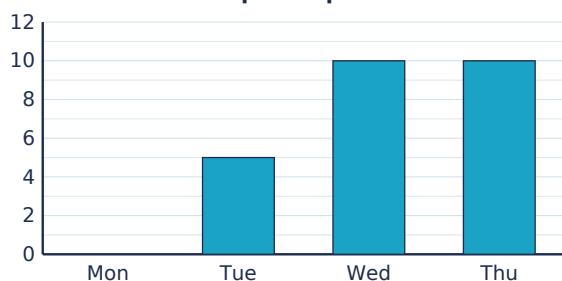
- 4** One bar is missing. Draw it so the mean number of laps across all 4 days is 5.

Laps swum



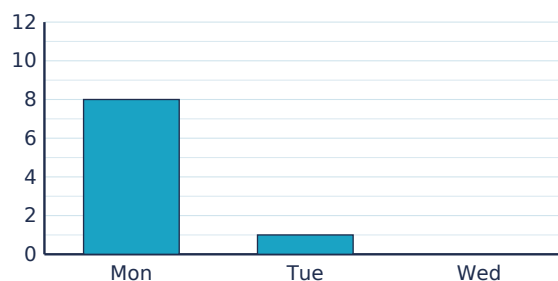
- 5** One bar is missing. Draw it so the mean number of skips across all 4 days is 8.

Skips completed



- 6** One bar is missing. Draw it so the mean number of goals across all 3 days is 4.

Goals scored



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Most Mean (continued)

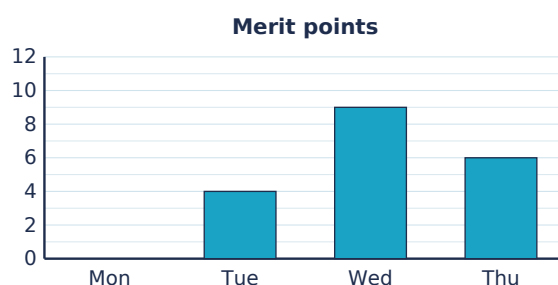
Find a missing value to give a mean.

Page 2 of 2

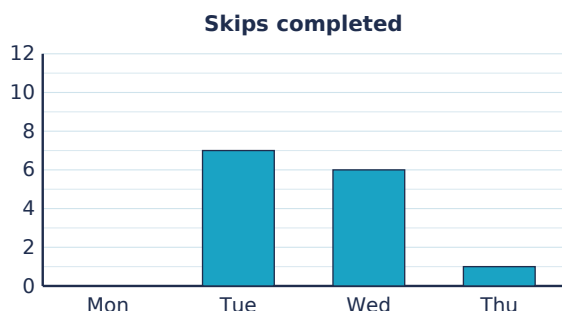
- 7** One bar is missing. Draw it so the mean number of books across all 4 days is 9.



- 8** One bar is missing. Draw it so the mean number of merit points across all 4 days is 7.



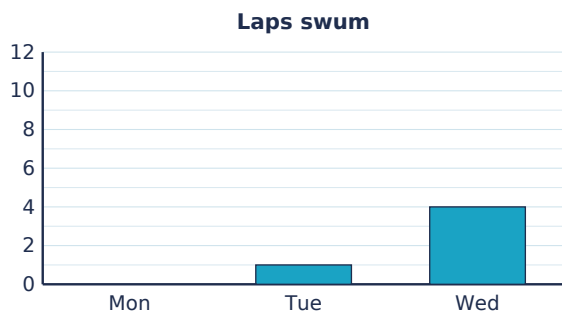
- 9** One bar is missing. Draw it so the mean number of skips across all 4 days is 6.



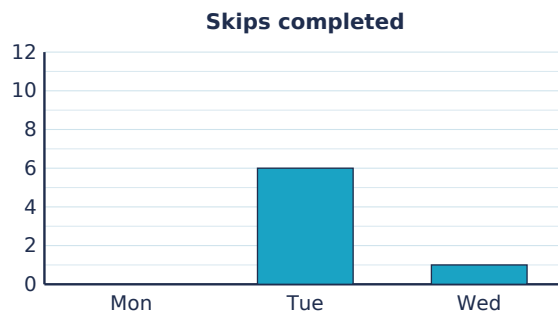
- 10** One bar is missing. Draw it so the mean number of books across all 4 days is 5.



- 11** One bar is missing. Draw it so the mean number of laps across all 3 days is 3.



- 12** One bar is missing. Draw it so the mean number of skips across all 3 days is 5.


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Some Mean

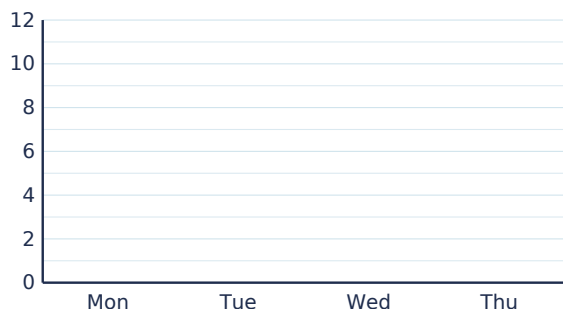
Name _____

Make a set of data with a given mean.

Page 1 of 2

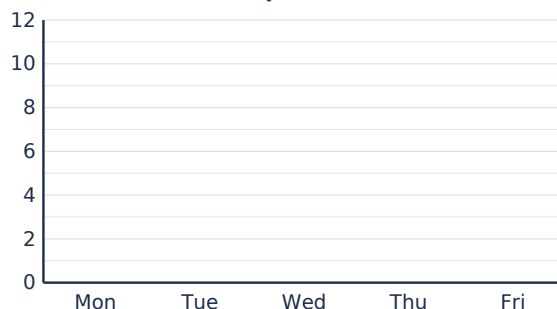
1 Draw 4 bars so the mean is 5.

Books read



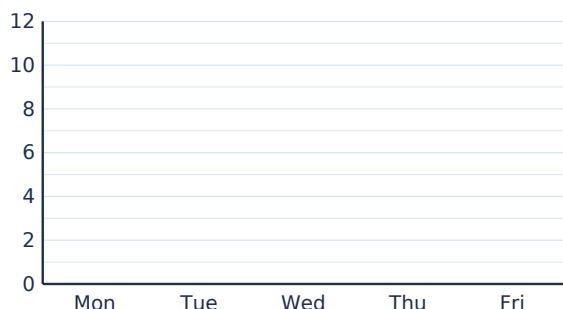
2 Draw 5 bars so the mean is 6.

Laps swum



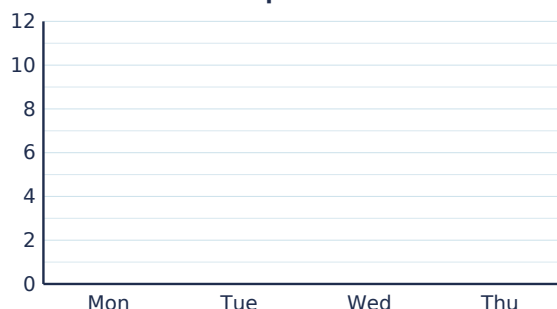
3 Draw 5 bars so the mean is 5.

Goals scored



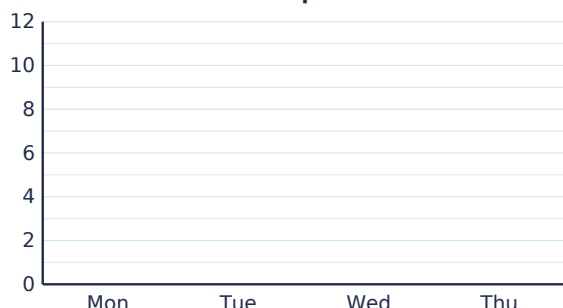
4 Draw 4 bars so the mean is 3.

Laps swum



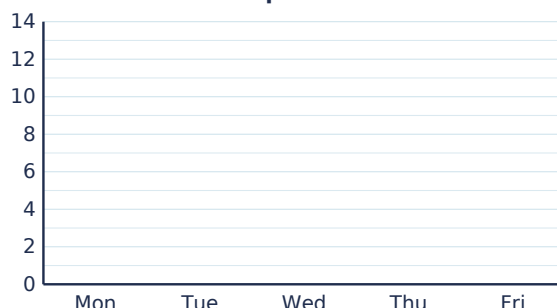
5 Draw 4 bars so the mean is 4.

Merit points



6 Draw 5 bars so the mean is 7.

Laps swum



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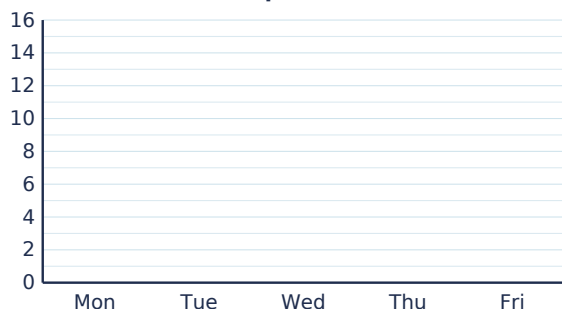
Some Mean (continued)

Make a set of data with a given mean.

Page 2 of 2

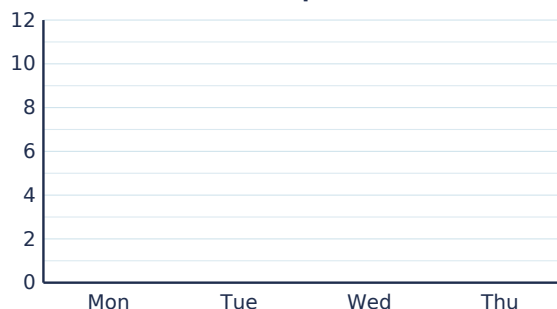
7 Draw 5 bars so the mean is 8.

Laps swum



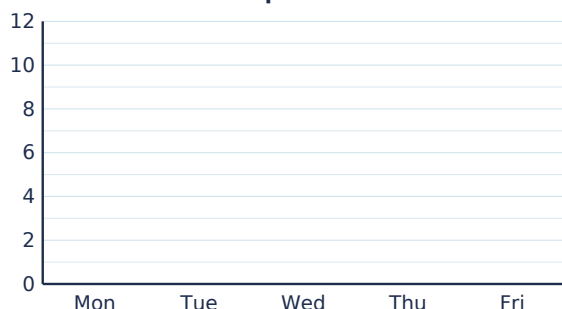
8 Draw 4 bars so the mean is 6.

Merit points



9 Draw 5 bars so the mean is 4.

Laps swum



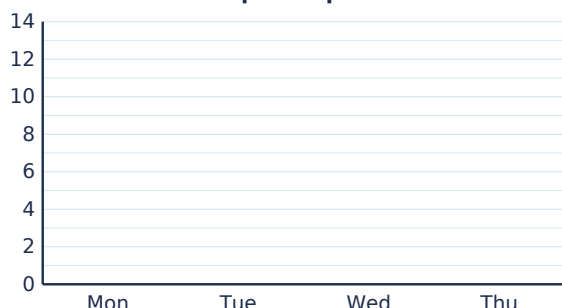
10 Draw 4 bars so the mean is 8.

Books read



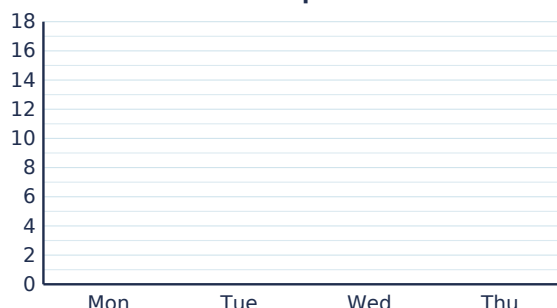
11 Draw 4 bars so the mean is 7.

Skips completed



12 Draw 4 bars so the mean is 9.

Merit points



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Mean: answers

All Find the mean from a bar chart.

1 5 $1 + 7 + 8 + 4 = 20; \div 4 = 5$

2 6 $5 + 7 + 2 + 6 + 10 = 30; \div 5 = 6$

3 5 $4 + 4 + 8 + 1 + 8 = 25; \div 5 = 5$

4 4 $3 + 6 + 1 + 6 = 16; \div 4 = 4$

5 3 $1 + 2 + 3 + 6 = 12; \div 4 = 3$

6 7 $3 + 9 + 5 + 8 + 10 = 35; \div 5 = 7$

7 8 $7 + 8 + 7 + 10 + 8 = 40; \div 5 = 8$

8 5 $4 + 4 + 4 + 5 + 8 = 25; \div 5 = 5$

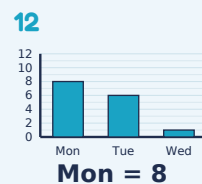
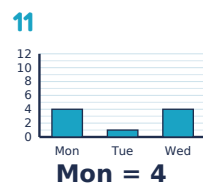
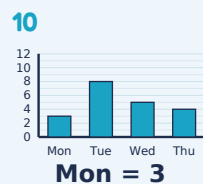
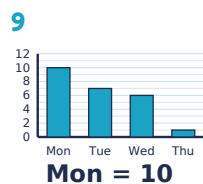
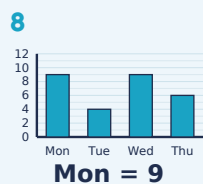
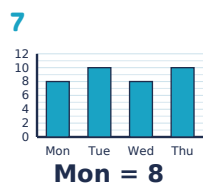
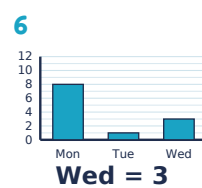
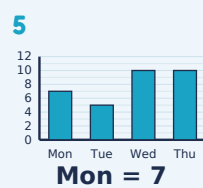
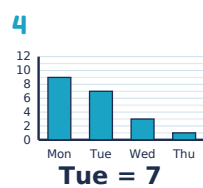
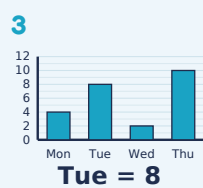
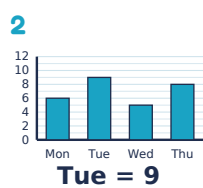
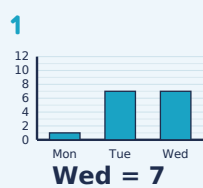
9 5 $9 + 7 + 3 + 5 + 1 = 25; \div 5 = 5$

10 5 $9 + 1 + 2 + 3 + 10 = 25; \div 5 = 5$

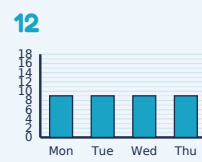
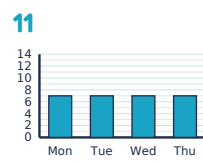
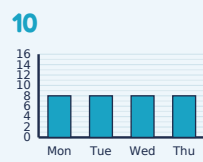
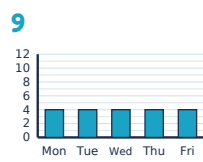
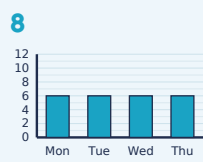
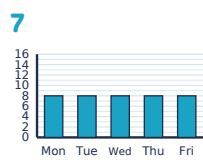
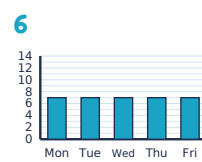
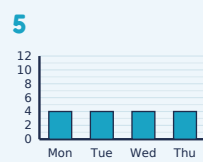
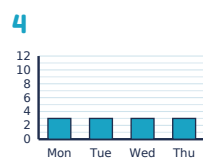
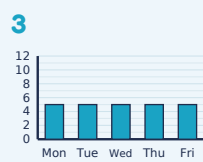
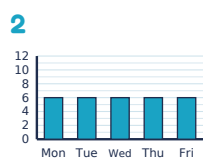
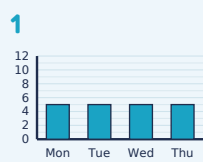
11 6 $2 + 9 + 7 + 9 + 3 = 30; \div 5 = 6$

12 6 $4 + 8 + 4 + 8 = 24; \div 4 = 6$

Most Find a missing value to give a mean.



Some Make a set of data with a given mean.



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