

All Ratio, scale and sharing

Name _____

Use a ratio to find a missing amount.

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- 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.

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- 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

Find and use scale factors.

Name _____

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- 1** A shape's side is enlarged from 5 cm to 10 cm. What is the scale factor?

Circle the answer.

10

3

2

5

- 2** Two rectangles are similar. The small one is 2 cm by 6 cm. The larger one is 8 cm wide. How tall is it, in cm?

Circle the answer.

10

48

6

24

- 3** A line is 3 cm long. It is enlarged by scale factor 4. How long is it now, in cm?

Circle the answer.

15

12

3

9

- 4** Two rectangles are similar. The small one is 5 cm by 7 cm. The larger one is 15 cm wide. How tall is it, in cm?

Circle the answer.

7

21

10

105

- 5** Two rectangles are similar. The small one is 2 cm by 4 cm. The larger one is 8 cm wide. How tall is it, in cm?

Circle the answer.

4

32

8

16

- 6** A shape's side is enlarged from 5 cm to 25 cm. What is the scale factor?

Circle the answer.

20

5

6

25

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Some Ratio, scale and sharing

Name _____

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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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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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