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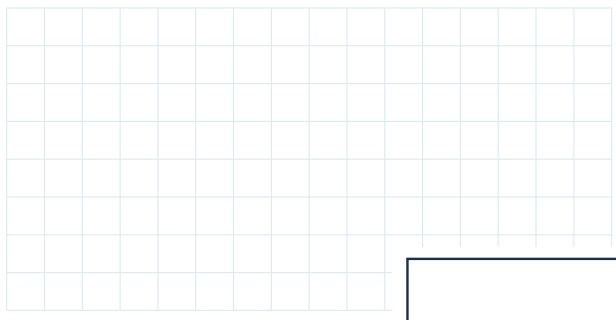
Most Squares, cubes and multiples

Name _____

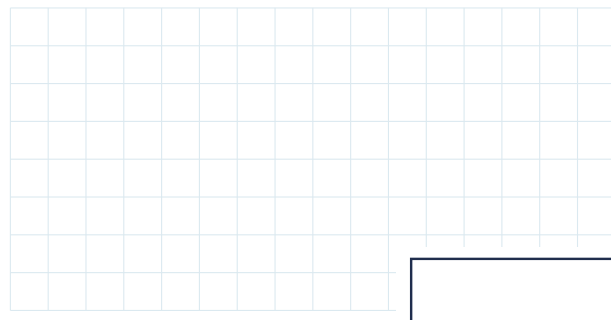
Solve problems with arrays, squares and cubes.

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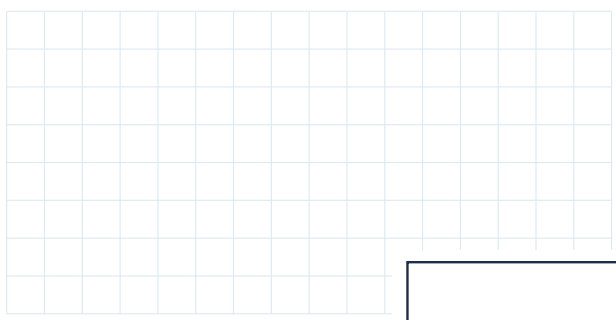
- 1** Shells are packed into a cube stack with 5 shells along each edge (5 by 5 by 5). How many shells are there in total?



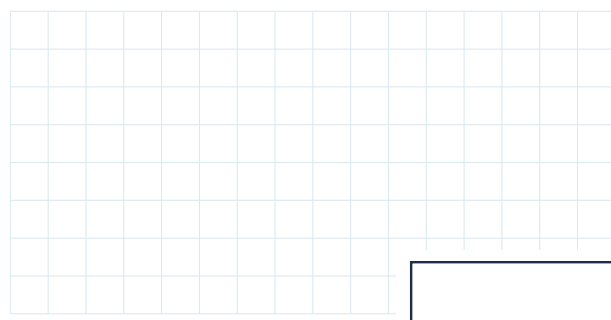
- 2** 18 shells are arranged in equal rows with 3 shells in each row. How many rows are there?



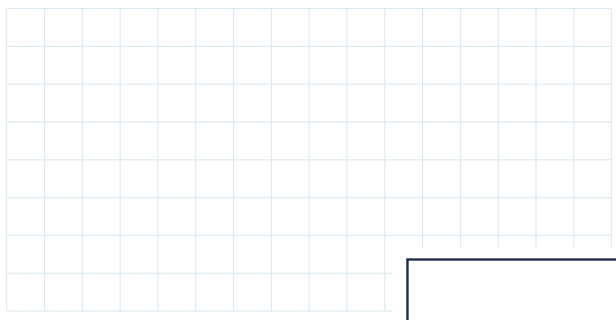
- 3** 48 shells are arranged in equal rows with 6 shells in each row. How many rows are there?



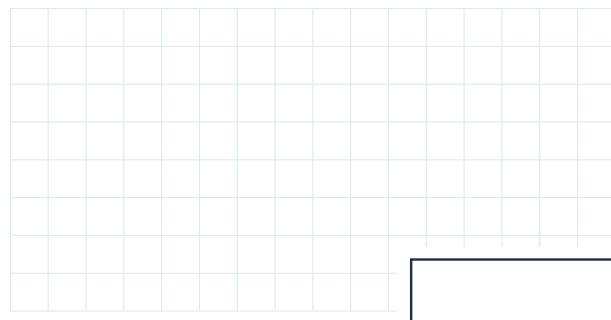
- 4** 20 shells are arranged in equal rows with 5 shells in each row. How many rows are there?



- 5** A diver lays out shells in a square pattern, with 5 rows of 5 shells. How many shells are there altogether?



- 6** 72 shells are arranged in equal rows with 8 shells in each row. How many rows are there?



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Most Squares, cubes and multiples (continued)

Solve problems with arrays, squares and cubes.

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- 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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