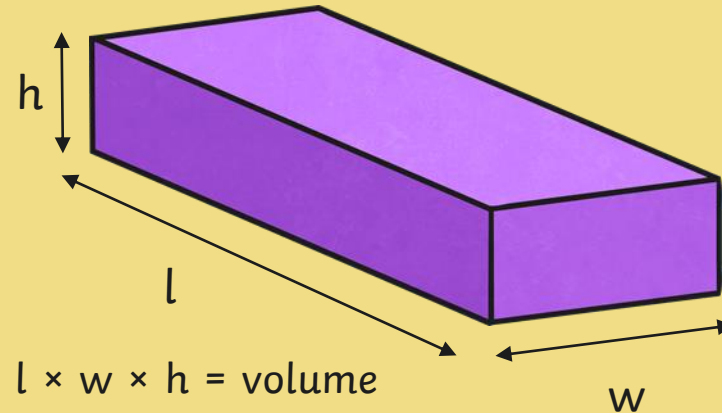


Multiplication and Division Warm-Up

twinkl

Multiply Three Numbers Mentally

To calculate the volume of cuboids, we need to multiply the length (l), by the width (w), by the height (h).



Calculate the volume of these cuboids:

$$4\text{cm} \times 5\text{cm} \times 3\text{cm} = \underline{\hspace{2cm}} \text{cm}^3$$

$$6\text{cm} \times 1\text{cm} \times 2\text{cm} = \underline{\hspace{2cm}} \text{cm}^3$$

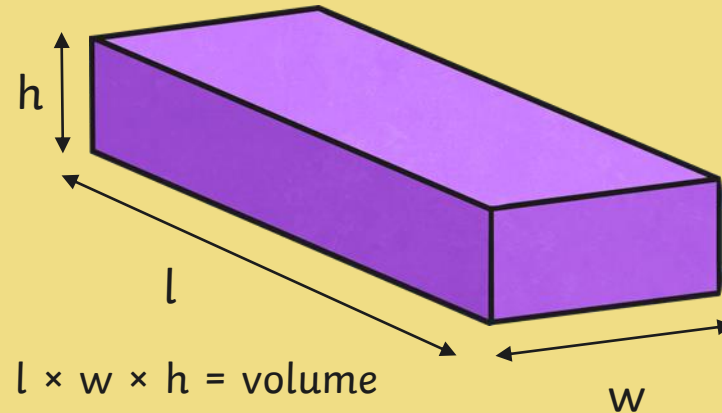
$$7\text{cm} \times 8\text{cm} \times 4\text{cm} = \underline{\hspace{2cm}} \text{cm}^3$$

$$9\text{cm} \times 3\text{cm} \times 10\text{cm} = \underline{\hspace{2cm}} \text{cm}^3$$

$$11\text{cm} \times 2\text{cm} \times 9\text{cm} = \underline{\hspace{2cm}} \text{cm}^3$$

Multiply Three Numbers Mentally

To calculate the volume of cuboids, we need to multiply the length (l), by the width (w), by the height (h).



Calculate the volume of these cuboids:

$$4\text{cm} \times 5\text{cm} \times 3\text{cm} = \underline{60} \text{ cm}^3$$

$$6\text{cm} \times 1\text{cm} \times 2\text{cm} = \underline{12} \text{ cm}^3$$

$$7\text{cm} \times 8\text{cm} \times 4\text{cm} = \underline{224} \text{ cm}^3$$

$$9\text{cm} \times 3\text{cm} \times 10\text{cm} = \underline{270} \text{ cm}^3$$

$$11\text{cm} \times 2\text{cm} \times 9\text{cm} = \underline{198} \text{ cm}^3$$

Factor Pairs

Write all the factor pairs of:

$$1 \times ? = 15$$

$$15 \times ? = 15$$

15

$$3 \times ? = 15$$

$$5 \times ? = 15$$

Click on a ? to reveal the answer

next slide

Factor Pairs

Write all the factor pairs of:

$$1 \times 15 = 15$$

$$15 \times 1 = 15$$

15

$$3 \times 5 = 15$$

$$5 \times 3 = 15$$

Factor Pairs

Write all the factor pairs of:

$$2 \times ? = 24$$

$$6 \times ? = 24$$

$$12 \times ? = 24$$

$$4 \times ? = 24$$

24

$$1 \times ? = 24$$

$$3 \times ? = 24$$

$$24 \times ? = 24$$

$$8 \times ? = 24$$

Factor Pairs

Write all the factor pairs of:

$$2 \times 12 = 24$$

$$6 \times 4 = 24$$

$$12 \times 2 = 24$$

$$4 \times 6 = 24$$

$$1 \times 24 = 24$$

24

$$3 \times 8 = 24$$

$$24 \times 1 = 24$$

$$8 \times 3 = 24$$

Click on a ? to reveal the answer

next slide

Multiply Two-Digit and Three-Digit Numbers by a One-Digit Number

Use formal written methods to work out the following calculations:

$24 \times 8 = ?$

$126 \times 8 = ?$

$36 \times 9 = ?$

$253 \times 9 = ?$

$47 \times 7 = ?$

$348 \times 7 = ?$

$53 \times 6 = ?$

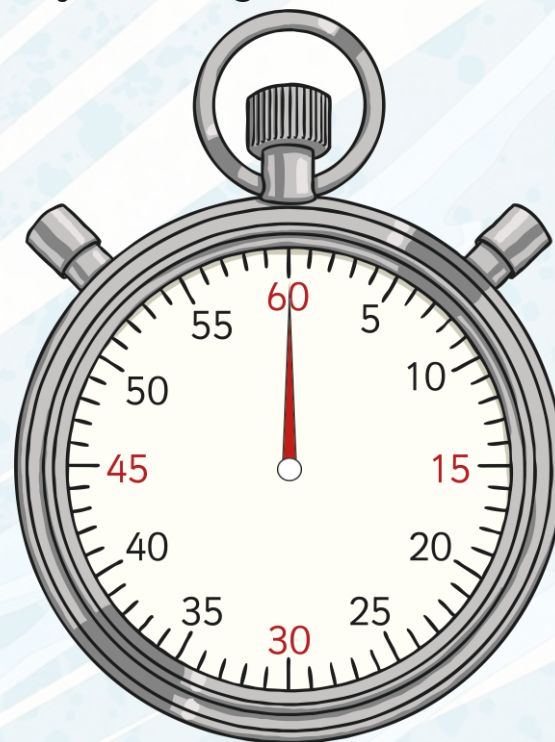
$508 \times 6 = ?$

$62 \times 5 = ?$

$783 \times 4 = ?$

$85 \times 4 = ?$

$980 \times 3 = ?$



Start 1 2 3 4 5 6 7 8 9 10

Click on a ? to reveal the answer

next slide

Multiply Two-Digit and Three-Digit Numbers by a One-Digit Number

Use formal written methods to work out the following calculations:

$$24 \times 8 = \mathbf{192}$$

$$36 \times 9 = \mathbf{324}$$

$$47 \times 7 = \mathbf{329}$$

$$53 \times 6 = \mathbf{318}$$

$$62 \times 5 = \mathbf{310}$$

$$85 \times 4 = \mathbf{340}$$

$$126 \times 8 = \mathbf{1008}$$

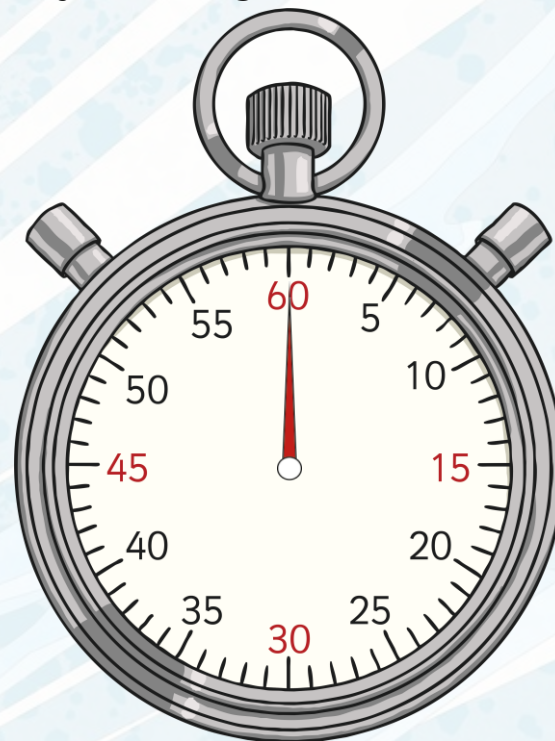
$$253 \times 9 = \mathbf{2277}$$

$$348 \times 7 = \mathbf{2436}$$

$$508 \times 6 = \mathbf{3048}$$

$$783 \times 4 = \mathbf{3132}$$

$$980 \times 3 = \mathbf{2940}$$



Start 1 2 3 4 5 6 7 8 9 10