Summer 2026

Year 5 Maths Challenge

Last term

Find the product of 3,064 and 43

Previous learning

Correct the mistake in each number sequence.

7,875 , 8,875 , 9,875 , 11,875 , 12,875 , 13,875

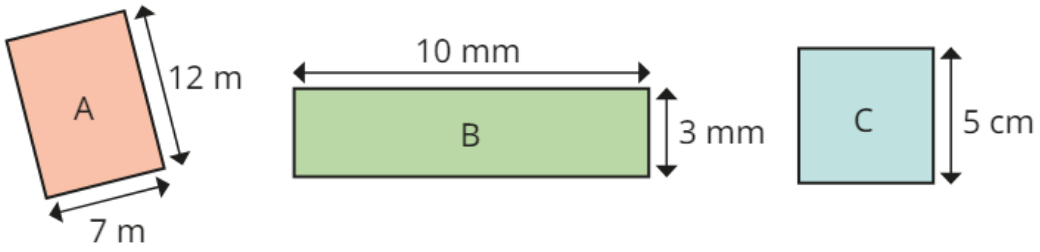
864,664 , 764,664 , 664,664 , 554,664 , 444,664

We are currently learning

Shapes A and B are rectangles.

Shape C is a square.

Work out the area of each shape.



We are learning next

Here is a table with information about four planets.

Planet	Time for revolution	Diameter (km)	Time for rotation
Mercury	88 days	4,878	59 days
Venus	225 days	12,104	116 days
Earth	365 days	12,756	24 hours
Mars	687 days	6,794	25 hours

- How many of the planets take more than one day to rotate?
- Which planet takes more than one year for one revolution?
- Write the diameter of Venus in words.
- What is the difference between the time for rotation of Mercury and the time for rotation of Earth?

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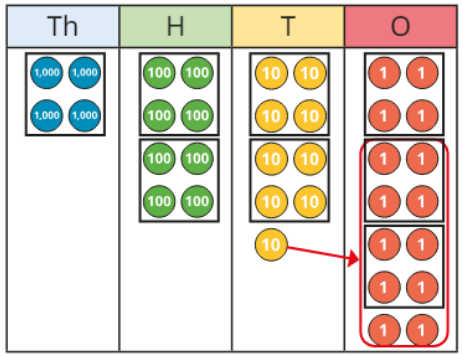
Year 5 Maths Challenge

Last term

Scott is is working out 4,894 ÷ 4



		1	2	2	3	r2
	4	4	8	9	14	

Use Scott's method to work out the divisions.

6,613 ÷ 5

2,471 ÷ 3

9,363 ÷ 4

Previous learning

A pole is used to measure the depth of water in a river.

The part of the pole above the water is 95 cm.

The part of the pole in the water is 35 cm greater than the part of the pole above the water.

How long is the pole?

We are currently learning

Use the table to answer the questions.

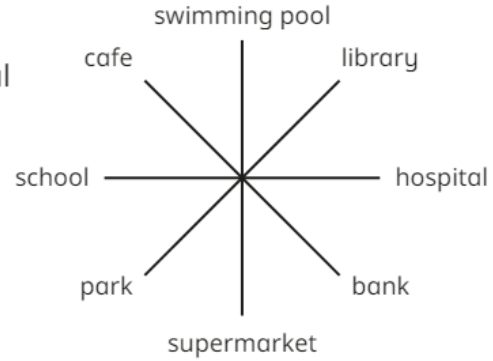
City	Leeds	Wakefield	Bradford	Liverpool	Coventry
Population	720,000	316,000	467,000	440,000	305,000

- What is the difference between the highest and lowest populations?
- Which two cities have a combined population of 621,000?
- How much larger is the population of Liverpool than Coventry?

We are learning next

Aisha, Scott, Huan and Dani are standing in the centre.

- Work out what each child is facing after their turn.
  - Aisha is facing the hospital and turns 90° clockwise.
  - Scott is facing the supermarket and turns 270° anticlockwise.
  - Huan is facing the cafe and turns 180°.
  - Dani is facing the library and turns 360°.



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Year 5 Maths Challenge

Last term

Complete the multiplications.
Give your answers as mixed numbers.

- $\frac{3}{13} \times 5$
- $6 \times \frac{5}{7}$
- $\frac{6}{11} \times 9$
- $8 \times \frac{7}{12}$

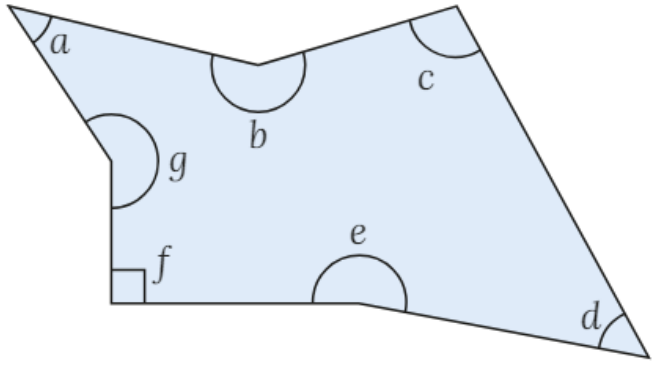
Previous learning

Complete the calculations.

- $536 + 275 = 540 + \_\_\_\_\_$
- $536 - 275 = 540 - \_\_\_\_\_$
- $3{,}000 - 513 = 2{,}999 - \_\_\_\_\_$
- $2{,}685 + \_\_\_\_\_ = 2{,}695 + 3{,}541$

We are currently learning

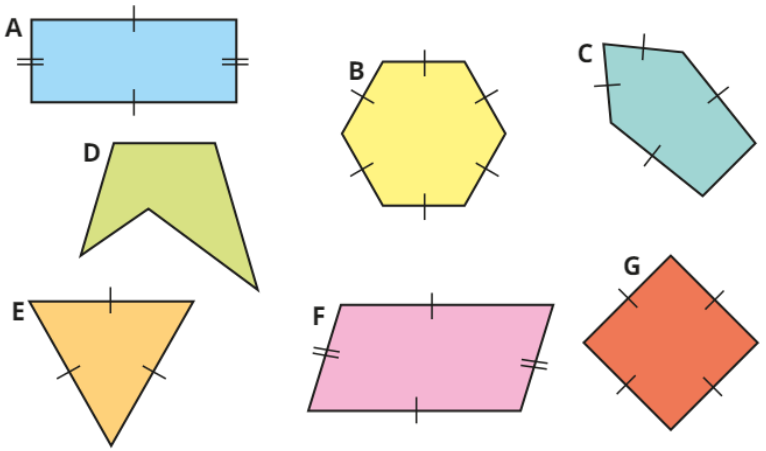
Classify angles a to g as acute, obtuse, reflex or right angle.



We are learning next

In a regular polygon, all angles are equal and all sides are equal.

Sort the shapes into regular and irregular polygons.



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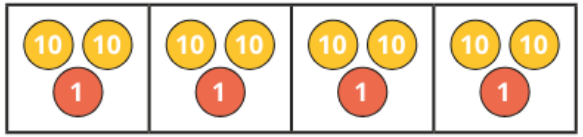
Year 5 Maths Challenge

Last term

Nijah uses place value counters to find $\frac{1}{4}$ of 84 = 21



Use Nijah's method to work out the fractions of amounts.

$\frac{1}{4}$ of 48	$\frac{3}{4}$ of 88	$\frac{2}{3}$ of 96	$\frac{4}{5}$ of 55
$\frac{3}{4}$ of 92	$\frac{5}{6}$ of 72	$\frac{4}{7}$ of 84	$\frac{3}{4}$ of 76

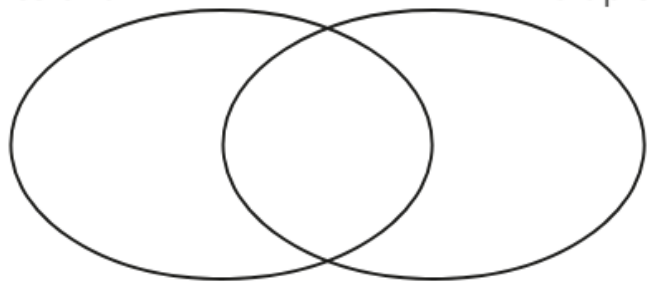
Why were the last calculations more challenging?

Previous learning

Write the numbers in the sorting diagram.

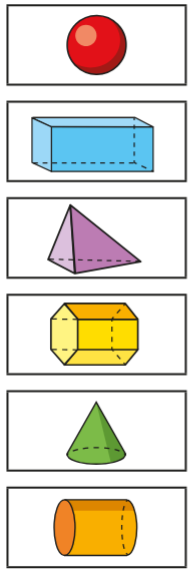
12	18	24	9	6	45	48	54	36	63

multiples of 6 multiples of 9



We are currently learning

Match the 3-D shapes to their names.

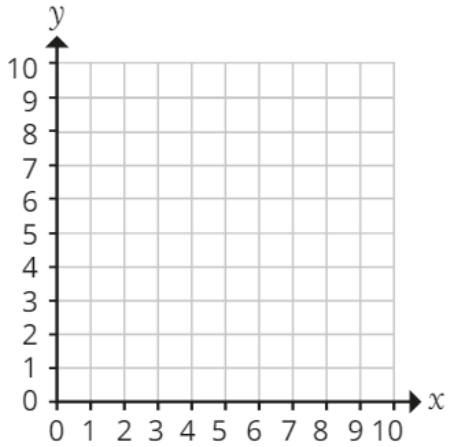


cuboid
triangular-based pyramid
cone
sphere
hexagonal prism
cylinder

We are learning next

Plot the points on the coordinate grid.

(3, 6)
(7, 3)
(7, 6)
(5, 0)
(3, 3)



Join the points to make a polygon.

What polygon have you drawn?

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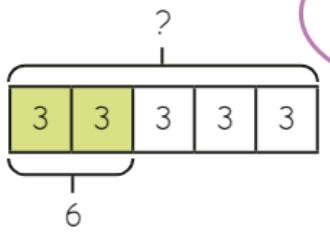
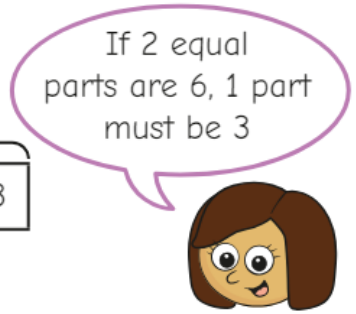
Year 5 Maths Challenge

Last term

Kim uses a bar model to help work out the missing amount.

$\frac{2}{5}$ of _____ = 6





$6 \div 2 = 3$

$3 \times 5 = 15$

$\frac{2}{5}$ of $15 = 6$

Use Kim's method to work out the missing amounts.

- $\frac{2}{5}$ of _____ = 8
- $\frac{3}{7}$ of _____ = 18
- $\frac{4}{5}$ of _____ = 20
- $\frac{6}{7}$ of _____ = 54

Previous learning

Write <, > or = to complete the statements.

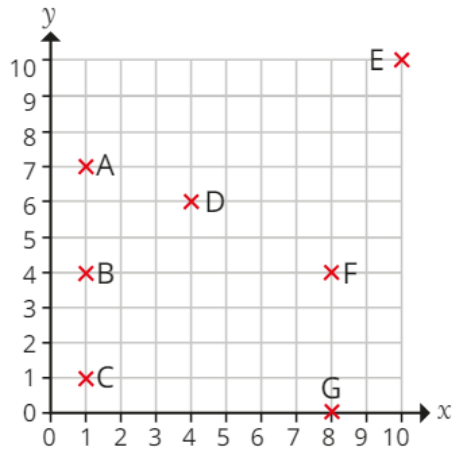
$71 \times 1{,}000$ ◯ 71×100

100×32 ◯ $16 \times 1{,}000$

6×10^3 ◯ 45×10^2

We are currently learning

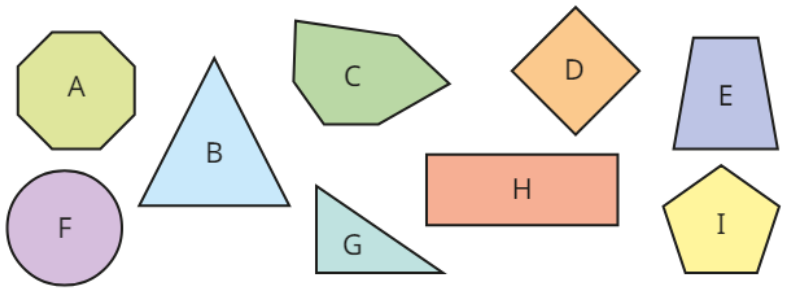
Seven points are plotted on a coordinate grid.



- What are the coordinates of each point?
- How many of the points have an x-coordinate of 1?
- How many of the points have a y-coordinate of 4?
- How many of the points have the same x- and y-coordinates?

We are learning next

Sort the shapes into the table.



	1 line of symmetry	More than 1 line of symmetry
Up to 4 sides		
More than 4 sides		

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Year 5 Maths Challenge

Last term

Filip buys a bag of sweets.

He eats 70% of the sweets and gives $\frac{1}{10}$ to his sister.

What percentage of the sweets is left in the bag?

What fraction is left?

Previous learning

At half-time in a netball match, all seven players and both reserves are given half an orange.

How many oranges are needed altogether?

We are currently learning

Work out the additions.

8.7 m + 5.29 m	0.63 litres + 0.8 litres
6.3 kg + 2.75 kg	5.173 km + 4.08 km

We are learning next

Write <, > or = to compare the measurements.

5 kg ◯ 4,500 g

12 kg ◯ 12,000 g

3.7 km ◯ 370 m

37,000 m ◯ 3.7 km

Summer 2026

Year 5 Maths Challenge

Last term

Round the numbers to 1 decimal place.

6.96	4.03	9.99	0.95

Previous learning

Work out the additions.

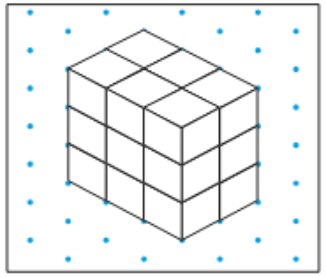
- $4\frac{7}{9} + 2\frac{1}{3}$
- $2\frac{5}{6} + 1\frac{1}{3}$
- $\frac{15}{8} + 2\frac{1}{4}$

We are currently learning

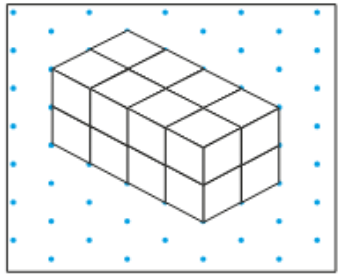
Dexter and Annie each draw a cuboid on isometric paper.

Whose cuboid has the greater volume?

Dexter



Annie



We are learning next

The temperature in London is 8 °C.

The temperature in Moscow is −7 °C.

How much warmer is the temperature in London than in Moscow?

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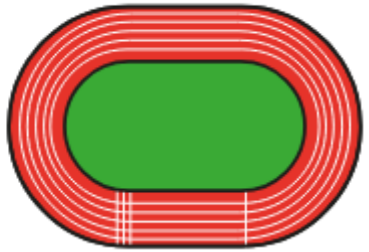
Year 5 Maths Challenge

Last term

A race is 5,407 m long.

36 runners complete the race.

What is the combined total distance run?



Previous learning

Mo is thinking of a number.

- The number is 5,000 when rounded to the nearest 1,000
- The number is also 5,000 when rounded to the nearest 100
- The number is also 5,000 when rounded to the nearest 10
- The number is not 5,000

What is the greatest possible value of the number?

We are currently learning

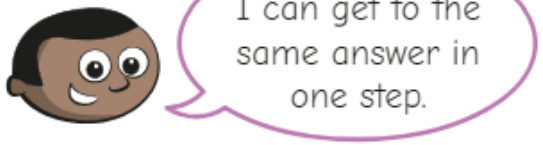
Work out the additions.

8.7 m + 5.29 m	0.63 litres + 0.8 litres
6.3 kg + 2.75 kg	5.173 km + 4.08 km

We are learning next

Mo divides 72 by 1,000

He then multiplies the answer by 10



Explain Mo's method.

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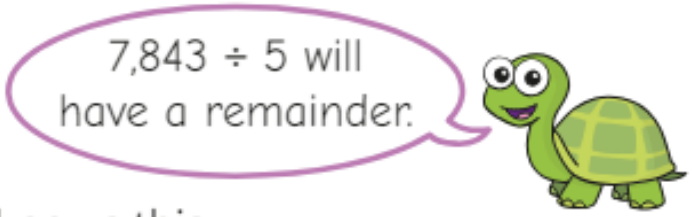
Last term



Explain how Tiny knows this.

Previous learning

What mistake has been made?

1,562 + 301 = 4,572

We are currently learning

Eva buys a bag of apples costing £4.27

She pays with a £10 note.

How much change does she get?

We are learning next

Mr Rose is in the lift of a building.

He is on the ground floor.

- What number represents the ground floor?

Mr Rose wants to go to a shop on the floor above him.

- What number button does he need to press?

Mr Rose's car is parked in the car park on the floor below ground level.

His hand is covering the button.

- What number will this be?

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Year 5 Maths Challenge

Last term

$5 \times 1\frac{5}{6}$

$1\frac{9}{10} \times 3$

$6 \times 2\frac{3}{5}$

$4 \times 12\frac{7}{8}$

Previous learning

Put the addition cards in order of size, starting with the one with the greatest answer.

463 + 127

563 + 327

483 + 127

463 + 327

463 + 337

We are currently learning

Amir is on floor 4 of a building.

He gets in a lift and goes down 7 floors.

Rosie is on floor −5 of the building.

She gets in a lift and goes up 3 floors.

Who is on the lower floor now?

We are learning next

Write <, > or = to compare the measurements.

5 kg ◯ 4,500 g

12 kg ◯ 12,000 g

3.7 km ◯ 370 m

37,000 m ◯ 3.7 km

Summer 2026

Year 5 Maths Challenge

Last term

There are 32 boys and girls in a class.

$\frac{7}{16}$ of the class are boys.

How many more girls than boys are there?

How did you work it out?

Previous learning

Find the common factors of each pair of numbers.

10 and 15	15 and 20	10 and 20

We are currently learning

Write <, > or = to compare the measurements.

2 l ◯ 1,500 ml

60 l ◯ 6,000 ml

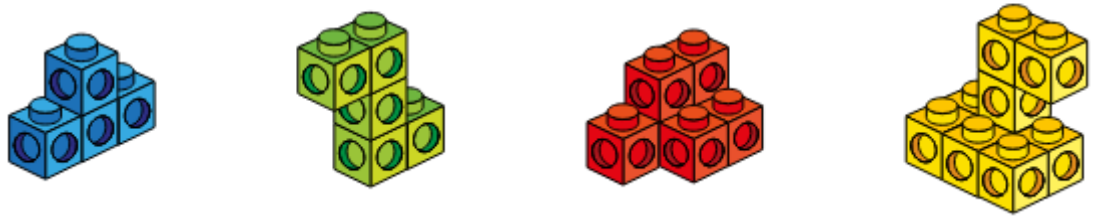
2.8 m ◯ 280 mm

3,700 m ◯ 3.7 mm

We are learning next

What is the volume of each 3-D shape?

Each cube has a volume of 1 cm^3



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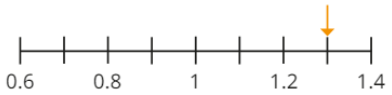
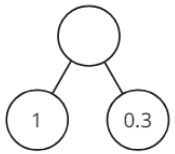
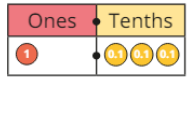
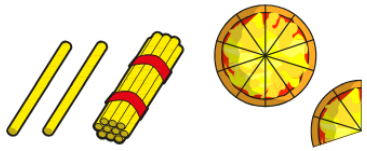
Last term

Which representation is the odd one out?









Explain your answer.

Previous learning

Complete the table.

Size of cube	Calculation	Number of cubes
1^3		1
2^3		8
3^3	$3 \times 3 \times 3$	
4^3		
5^3		
6^3	$6 \times 6 \times 6$	

We are currently learning

Complete the table.

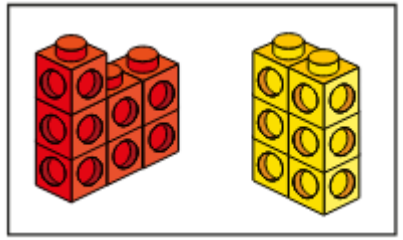
Days	Weeks and days
42 days	
	5 weeks and 5 days
	10 weeks and 5 days
100 days	

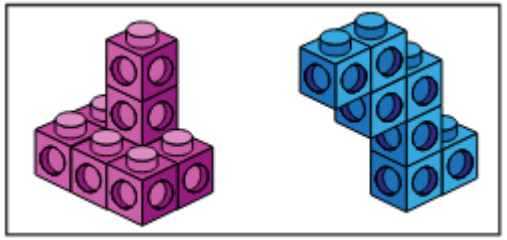
We are learning next

Each cube has a volume of 1 cm^3

What are the volumes of the shapes?

In each pair, which shape has the greater volume?





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Year 5 Maths Challenge

Last term

Round the numbers to 1 decimal place.

6.96	4.03	9.99	0.95

Previous learning

Dora

$\frac{14}{4} = 3\frac{2}{4}$

Mo

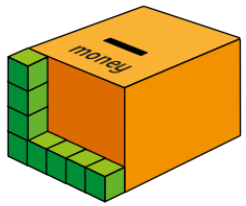
$\frac{14}{4} = 3\frac{1}{2}$

Whose conversion of $\frac{14}{4}$ do you agree with?

We are currently learning

Tiny is using cubes to estimate the volume of a money box.

Each cube has a volume of 1 cm^3



What mistake has Tiny made?

What is the approximate volume of the money box?

We are learning next