

Place Value, Addition and Subtraction

SATS-style questions

1

$7000 + 80 =$

2

$8256 = 8000 +$

$+ 50 + 6$

3

$8 - 1.9 =$

4

What number is 2000 less than 8,105?

5

Order the numbers starting with the largest.
Match each number with its order.

2,040,678

1st

largest

2,100,999

2nd

2,040,687

3rd

2,404,456

4th

smallest

6

Complete the table

	Round 51,745
to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

7

The **original** price of this car is £17,999.

Sale
£1,500 off

What is the **sale** price of the car?

8

2,458,328

Which digit is in the **ten thousands** place?
Round 2,458,328 to the **nearest million**.

Place Value, Addition and Subtraction

SATS-style questions

1 Write these numbers in ascending order.

6, -7, 8, 7, 0, -3

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2 The numbers in this sequence decrease by the same amount each time. Fill in the missing numbers.

	, 11, 7, 3,		, -5,		
--	-------------	--	-------	--	--

3 Here are the temperatures in four cities at midnight and at midday.

	Temperature	
City	At midnight	At midday
Edinburgh	-3°C	-1°C
Moscow	-12°C	-6°C
Barcelona	4°C	11°C
Berlin	-5°C	3°C

At **midnight**, how many degrees colder was Edinburgh than Barcelona?

degrees

Which city was 6 degrees colder at midnight than at midday?

Place Value, Addition and Subtraction

SATS-style questions

1

$100 \div (49 - 24) =$

2

$70 + (6 \times 5) =$

3

$5^2 - 20 \div 4 =$

4

Write in the missing number.

$10 + 2 \times 5 -$

$= 16$

Place Value, Addition and Subtraction

SATS-style questions

1 = 6784 + 75

2 + 8 = 427

3 = 135 - 72

4 705 - = 697

5 The numbers in this sequence increase by 45 each time. Write in the missing numbers.

137 182 272

6 Write the missing digits to make this **addition** correct.

$$\begin{array}{|c|c|c|} \hline & 2 & \\ \hline \end{array} + \begin{array}{|c|c|} \hline & 2 \\ \hline \end{array} = 200$$

9

Write the missing digits to make this **addition** correct.

$$\begin{array}{r}
 \begin{array}{|c|c|c|c|c|} \hline \text{2} & \text{7} & \text{3} & \text{4} & \square \\ \hline \end{array} \\
 + \begin{array}{|c|c|c|c|} \hline \text{4} & \text{2} & \square & \text{5} \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|c|c|c|} \hline \square & \text{1} & \text{5} & \text{6} & \text{3} \\ \hline \end{array}
 \end{array}$$

10

Ken is playing a game. He has 3,185 points.

Then he scores another 478 points.

Ken's target is 5,000 points.

How many more points does Ken need to reach his target?

Show your method

11



potatoes
£1.40 per kg



carrots
£1.50 per kg

Jack buys $1\frac{1}{2}$ kg of potatoes and $\frac{1}{2}$ kg of carrots.

How much change does he get from £5?

Show your method

£

Decimals and Fractions

SATS-style questions

1 $8 - 4.45 =$

2 $6 - 5.738 =$

3 $45.6 - 37.89 =$

4 $8 -$ $= 6.57$

- 5 Choose a pair of distances with a difference of less than 1.5m but greater than 1m. Find the exact difference between your chosen distances.

8.6m

6.7m

6.47m

8.15m

 m

Decimals and Fractions

SATS-style questions

1

20% of 1400 =

2

51% of £350 =

3

$\frac{3}{7}$ of 560 =

4

Here are three symbols.

< > =

Write one symbol in each box to make the statements correct.

$\frac{9}{10}$

0.09

$\frac{47}{1000}$

0.47

5

Katie asked 80 children to choose their favourite flavour of jelly. These were her results.

Flavour	Number of children
Raspberry	17
Lemon	13
Orange	20
Blackcurrant	30
Total	80

What percentage of the 80 children chose orange?

 %

6Tick the fractions that are **equal** to 20%.

$\frac{1}{20}$

$\frac{20}{100}$

$\frac{1}{5}$

$\frac{4}{20}$

$\frac{2}{100}$

7Tick the fractions **more than** $\frac{3}{8}$

$\frac{1}{2}$

$\frac{2}{8}$

$\frac{3}{4}$

$\frac{7}{16}$

$\frac{24}{32}$

8

Write these fractions in order, starting with the **smallest**.

$$\frac{7}{6}$$

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

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

smallest

9

Tick the **two** numbers that are equivalent to $\frac{1}{4}$

Tick **two**.

0.25

0.75

 $\frac{25}{100}$

0.5

 $\frac{3}{8}$

Decimals and Fractions

SATS-style questions

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

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

3 $1\frac{3}{4} \times 10 =$

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

5 $\frac{2}{3} \times \frac{3}{4} =$

6 $\frac{3}{8} \div 2 =$

Multiplication and Division

SATS-style questions

1

Here are five numbers.

2 3 4 5 6 9

Write each number on the correct cards.

The number 2 has been written on the correct cards for you.

Prime numbers 2	Factors of 12 2	Factors of 15	Square numbers
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2

$3.6 \times 3 =$

3

$0.9 \times 400 =$

4

Write 2 factors of 30 which are **not** factors of 40.

5

A **square** number and a **prime** number have a total of 27. What are the two numbers?

6

Tick the numbers which are **common factors** of 15 and 20.

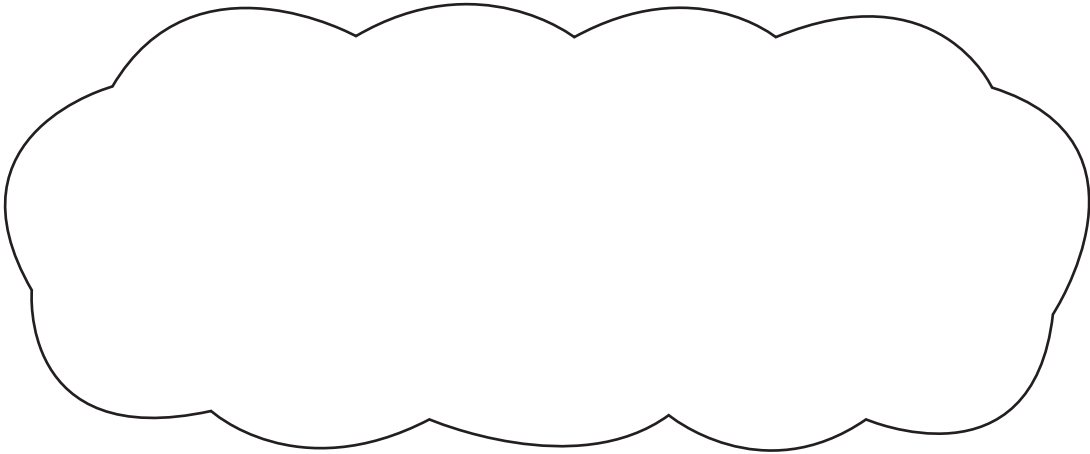
2 3 4 5 10

7

Circle the **prime** number.

48 51 53

Explain how you know the other numbers are **not** prime.



9

Write the missing digits to make this **addition** correct.

$$\begin{array}{rcccc} \boxed{2} & \boxed{7} & \boxed{3} & \boxed{4} & \boxed{} \\ + & \boxed{4} & \boxed{2} & \boxed{} & \boxed{5} \\ \hline \boxed{} & \boxed{1} & \boxed{5} & \boxed{6} & \boxed{3} \end{array}$$

10

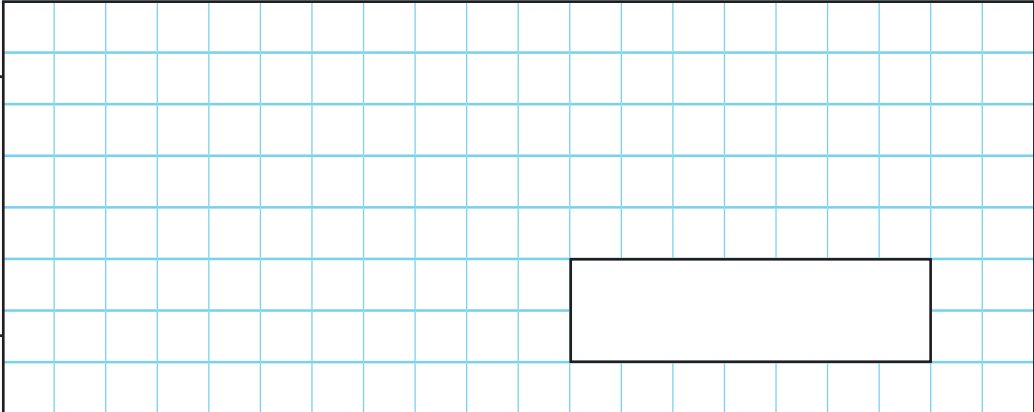
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Show your method



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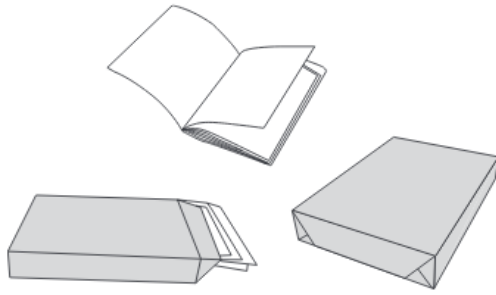
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Show your method

£

4

Jakob is making booklets.



Each booklet must have **42** sheets of paper.

He has **2** packets of paper.

There are **500** sheets of paper in each packet.

How many complete booklets can Jakob make from **2** packets of paper?

Measures and Data

SATS-style questions

1

Ben finished a sponsored cycle ride at 14:54.

His **Dad** finished 1 hour 8 minutes later.

What time did Ben's **Dad** finish?

Ben's **Sister** finished 15 minutes before his **Dad**.

What time did Ben's **Sister** finish?

2

This is the timetable for the number 251 bus from Leytown to Durwich.

Bus number 251					
Leytown	07:56	08:26	10:15	12:15	14:15
Carrsham	08:10	08:30	10:24	12:24	14:24
Allerton	08:27	08:57	10:49	12:49	14:49
Durwich	08:45	09:15	11:14	13:14	15:14

Sally needs to be in work in Dulwich before 9am. Which bus does she need to catch from **Carrsham**?

Stefan finishes shopping in Carrsham at $\frac{1}{4}$ past 2 in the afternoon. Which bus can he catch to go home in **Allerton**?

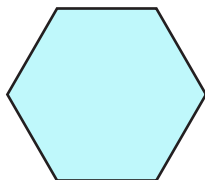
Measures and Data

SATS-style questions

1

These two shapes have the **same** perimeter.

regular hexagon



square



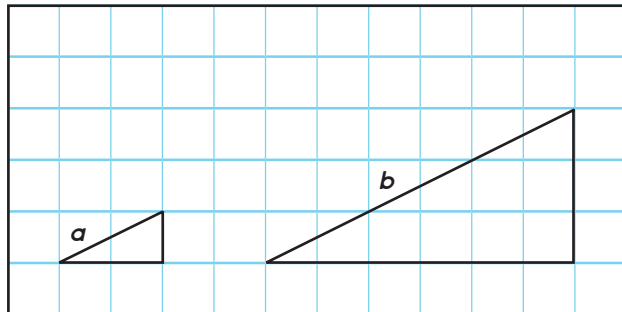
Not actual size

The length of each side of the **hexagon** is **6** centimetres.

Calculate the **area** of the **square**.

2

Here are two similar right-angles triangles.



Write the ratio of side a to side b .

$a : b =$

Measures and Data

SATS-style questions

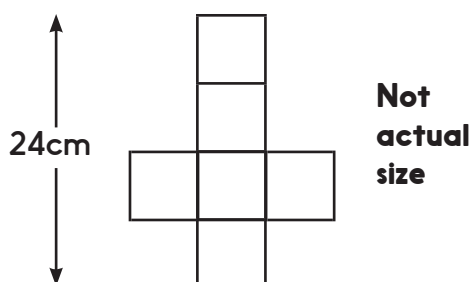
1

The volume of a cube is 27cm^3 . What is its height?

cm

2

This is the net of a cube.

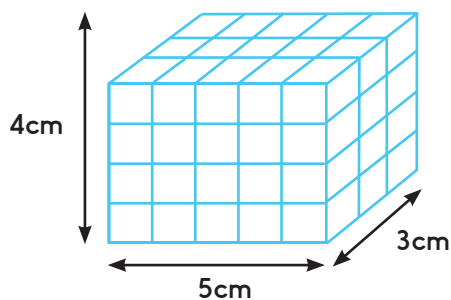


What is the **volume** of the cube?

cm^3

2

Katie made this cuboid using centimetre cubes.



Jakub makes a cuboid that is 3cm longer, 3cm taller and 3cm wider than Katie's cuboid.

What is the **difference** between the number of cubes in Katie's and Jakub's cuboids?

*Show
your
method*

cubes

3

This chart shows the number of different types of big cat in a zoo.

There are **40** big cats in the zoo altogether.



Here are some statements about the chart.

Tick the statements that are **true**.

There are more cheetahs than jaguars.

The total number of lions and tigers is 20.

One-quarter of the big cats are cheetahs.

There are more than 10 jaguars.

Algebra and Ratio

SATS-style questions

1 In this sequence, the rule to get the next number is

Multiply by 2, then add 5

Write the missing numbers.

	25	55	
--	----	----	--

2 A venue sells tickets for a concert online.

Each ticket costs £18.

There is a £3 charge for buying tickets.

Which of these shows how to calculate the total cost, in pounds?

Tick **one**.

number of tickets $\times 3 + 18$

number of tickets $\times 18 + 3$

number of tickets $+ 3 \times 18$

number of tickets $+ 18 \times 3$

3

Sam says,

I had £20
I gave some money away.



Which expression shows how much money Sam has left?

a is the amount of money, in pounds, that Sam gave away.

Tick one.

$20 + a$

$20 \div a$

$a - 20$

$20 - a$

$a \times 20$

4

$$x + 2y = 14$$

x and y are whole numbers less than 10.

What could x and y be?

 $x =$ $y =$

Algebra and Ratio

SATS-style questions

1

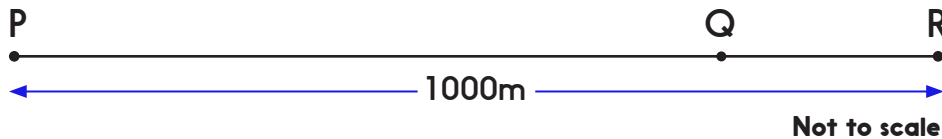
Alice planted some seeds.

For every 3 seeds Alice planted, only 2 seeds grew.

Altogether, 15 seeds grew.

How many seeds did Alice plant?

2



The distance from point P to point R is 1000 metres.

The distance from point P to point Q is 4 times the distance from point Q to point R.

Olivia says,

It is 750 metres from
point P to point Q.



Explain why Olivia is not correct.

A large, empty, cloud-shaped box with a scalloped border, intended for the student to write their explanation.