



SATs Information Evening 2026 Maths



The journey

- Used to assess their understanding of all KS2 maths curriculum areas.
- Ensures that pupils have the knowledge that they need to progress to KS3 and KS4.
- Arithmetic provides key life skills.

The papers



Wednesday 13th May

Maths Paper 1 (Arithmetic) – 30 minutes

Maths Paper 2 (Reasoning) – 40 minutes

Thursday 14th May

Maths Paper 3 (Reasoning) - 30 minutes



Strand	2016	2017	2018	2019	2022	2023	2024	Total raw marks
C: Calculations	41	40	47	42	46	39	42	297
F: Fractions, decimals and percentages	24	23	24	29	28	26	26	180
N: Number and place value	11	11	8	9	8	10	10	67
M: Measurement	11	11	7	12	6	8	11	66
R: Ratio and Proportion	6	6	7	4	7	9	4	43
G: Geometry: properties of shape	7	6	6	6	6	6	6	43
A: Algebra	4	7	8	7	5	5	4	40
S: Statistics	4	4	2	2	2	5	5	22
P: Position and direction (geometry)	2	2	1	3	2	2	2	14

The raw mark totals for each strand per year and their total for arithmetic and reasoning from 2016 to 2019 and 2022-2024

Arithmetic



- Paper 1 (Arithmetic)
- 30 minutes
- 40 Marks – usually around 36 questions – Long multiplication and division are worth 2 marks each.
- Assesses pupils' confidence using methods of calculation:
 - Addition
 - Subtraction
 - Multiplication
 - Division
 - Fractions – addition, subtraction, multiplication and division
 - Decimals
 - Percentages

Example:



$$\boxed{} = 8,275 + 82$$

$$122,456 - 11,999 =$$

$$89,994 + 7,643 =$$

Example:



$$60 \div (30 - 24) =$$

$$345 + 678 - 123 =$$

Example:



$$9 \times 41 =$$

$$213 \times 0 =$$

$$30 \times 40 =$$

			6	3	8	6	
x					1	5	

$$5 \times 4 \times 10 =$$



$$581 \div 7 =$$

1	7	7	1	4		

$$1,210 \div 11 =$$



Example:

4	5	8	1	9	0				

Example:



$$101 \times 1,000 =$$

$$25.34 \times 10 =$$

$$0.9 \div 100 =$$



Example:

$$15.98 + 26.314 =$$

$$7 - 2.25 =$$

$$15 \times 6.1 =$$

$$3.9 \times 30 =$$

Example:



$$\frac{4}{7} + \frac{5}{7} =$$

$$\frac{1}{5} + \frac{3}{4} =$$

$$2\frac{3}{4} - \frac{1}{8} =$$

$$\frac{8}{9} - \frac{1}{4} =$$

$$1\frac{1}{5} + 2\frac{1}{10} =$$

$$\frac{2}{7} \times \frac{8}{9} =$$

$$\frac{3}{13} \div 3 =$$

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

Example:



$$\frac{2}{5} \text{ of } 125 =$$

$$\frac{2}{5} \times 140 =$$

Example:



$$36\% \text{ of } 450 =$$

$$15\% \times 440 =$$

$$51\% \text{ of } 900 =$$

Reasoning



- Papers 2 & 3 (Reasoning)
- 40 minutes each
- 35 Marks
- Range of question types worth up to 4 marks.
- Focus on problem solving, fluency and applying mathematical reasoning.
- Questions cover the following areas (called 'content domains'):
 - Number and Place Value
 - All 4 Operations
 - Fractions, Decimals and Percentages.
 - Geometry – Properties of Shapes & Position and Direction
 - Statistics
 - Measurement
 - Algebra
 - Ratio and Proportion

Example:



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

1,009,909

1st

largest

1,023,065

2nd

1,009,099

3rd

1,230,650

4th

smallest

Example:



Jack chose a number.

He multiplied the number by 7

Then he added 85

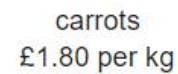
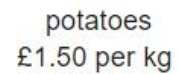
His answer was 953

What number did Jack choose?

Show your method

The grid is 20 columns wide and 10 rows high. A smaller rectangle, 10 columns wide and 3 rows high, is located in the bottom right corner of the grid, intended for the final answer.

2 marks



How much **change** does he get from £5?

2 marks

Example:



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

City	Temperature	
	At midnight	At midday
Paris	-4°C	-2°C
Oslo	-13°C	-7°C
Rome	3°C	10°C
Warsaw	-6°C	2°C

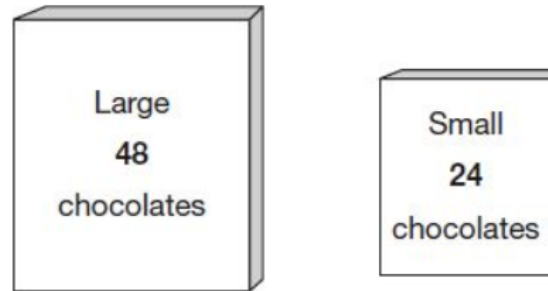
At **midnight**, how many degrees colder was Paris than Rome?

degrees

1 mark

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

1 mark



Show your method

chocolates

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Example:



A shop prints designs on T-shirts.



They use this formula to work out the price for printing a design.

$$\text{price} = 60\text{p} \times \text{number of colours} + \text{£}1.25$$

What is the price for printing a design that has **3** colours in it?

£

1 mark

Amina has **£5** to spend on printing a design.

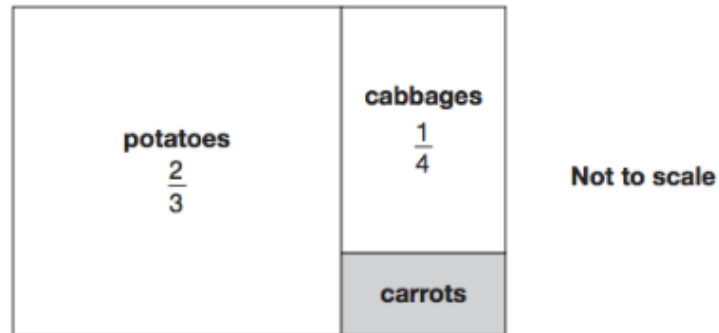
What is the greatest number of **colours** she can have in the design?

Example:



This is a diagram of a vegetable garden.

It shows the fractions of the garden planted with potatoes and cabbages.



The remaining area is planted with carrots.

What **fraction** of the garden is planted with carrots?

2 marks

In School:

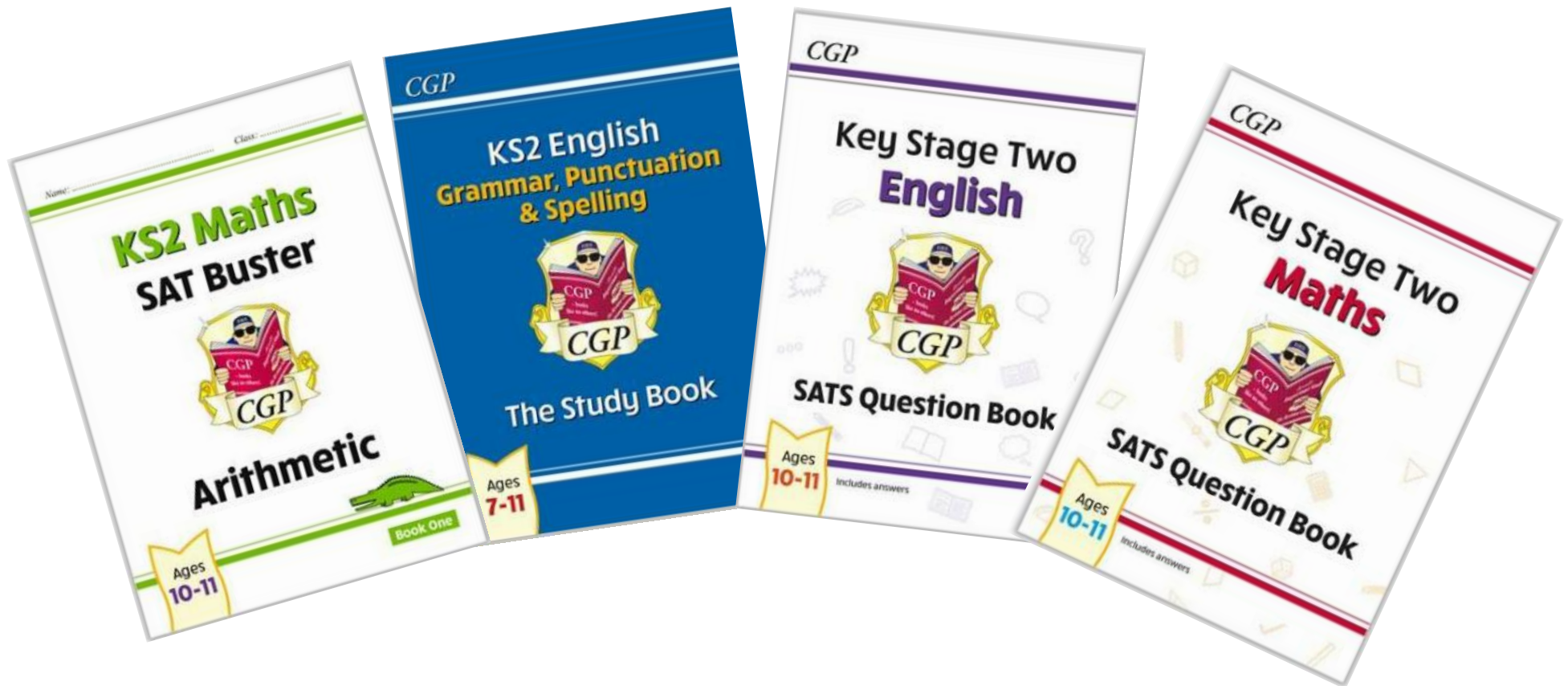


- Specialist Maths Teachers
- 5 Lessons a week
- Fluency Questions each day – based on Arithmetic
- Adapted Curriculum to support the GAP's in pupils knowledge
- Reasoning Questions woven throughout the curriculum
- Spring Term – Test walk throughs
- Weekly Homework Set
- Access to Bootcamp
- Access to TTRockstars

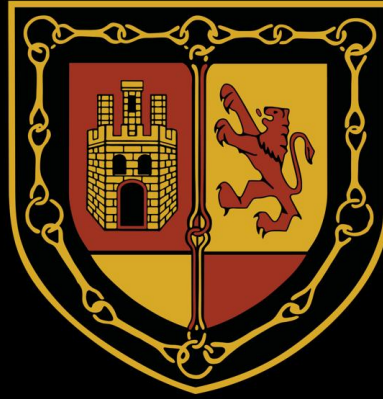
At Home:



- Ensure pupils are up to date with Homework
- TTRockstars minimum of 2x 15 mins a week
- Use of Bootcamp weekly
- Best possible attendance
- Ask questions about time differences, conversions of units of measure, change in a shop
- Encourage them to be positive and not worry! 😊



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Confident to Soar



**Thank you
for your support.**