



Mathematics

KS2 SATs Information Evening

October 2025

Mrs Joannou – Head of Maths



Key Stage 2 Maths SAT papers

Paper 1: Arithmetic

30 minutes

40 marks

Paper 2: Mathematical Reasoning

40 minutes

35 marks

Paper 3: Mathematical Reasoning

40 minutes

35 marks

Total 110 marks



To give more idea of the arithmetic paper it should be noted that:

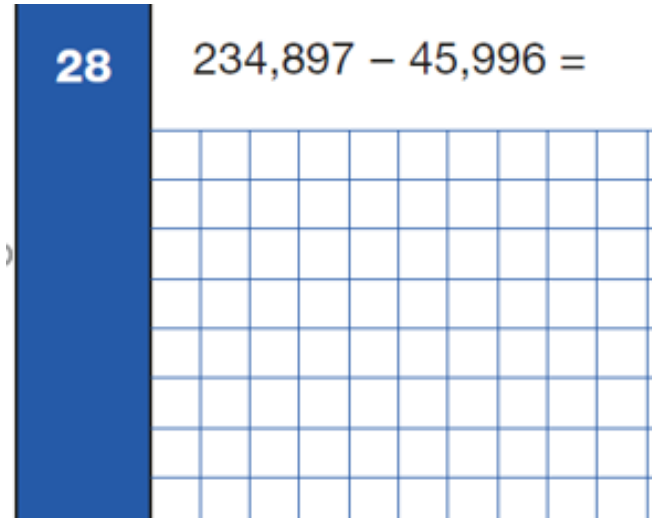
- 36 questions to answer in 30 minutes.
- By the end of year 4 it is expected that pupils have instant recall of their multiplication tables up to and including the 12 times table.

Here are some questions taken from previous arithmetic papers.

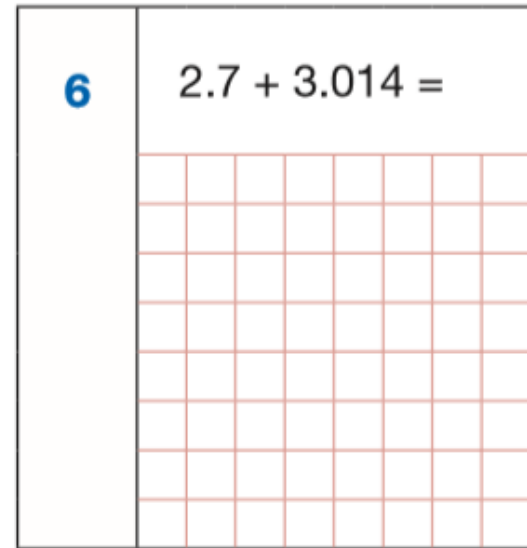


Add and subtract whole numbers and decimals with more than 4 digits, including using formal written column addition and subtraction.

28 $234,897 - 45,996 =$



6 $2.7 + 3.014 =$





Divide numbers up to 4 digits by a two-digit whole number using the formal methods of short or long division

36	$97 \overline{) 8827}$	
Show your method	<div data-bbox="1122 846 1304 922" style="border: 1px solid blue; width: 94px; height: 53px; margin: 10px auto;"></div>	<div data-bbox="1363 843 1416 896" style="border: 1px solid black; width: 27px; height: 37px; margin: 10px auto;"></div> <p>2 marks</p>



Multiply numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

29	$\begin{array}{r} 5413 \\ \times 86 \\ \hline \end{array}$	<input data-bbox="1767 929 1864 1025" type="text"/> 2 marks
Show your method	<div data-bbox="1325 933 1663 1072" style="border: 2px solid blue; width: 175px; height: 97px; margin: 0 auto;"></div>	



Use the four rules with fractions, including mixed numbers

$$\frac{1}{4} + \frac{1}{5} + \frac{1}{10} =$$

$$2\frac{1}{3} + \frac{5}{6} =$$

$$\frac{5}{7} + \frac{3}{21} =$$

$$\frac{9}{11} - \frac{4}{11} =$$

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

$$4\frac{2}{3} - 1\frac{6}{7} =$$

$$1\frac{1}{2} \times 57 =$$

$$1\frac{1}{15} - \frac{2}{5} =$$

$$\frac{4}{6} \times \frac{3}{5} =$$

$$\frac{3}{4} \text{ of } 1,000 =$$

$$\frac{5}{8} \div 2 =$$



Some examples from previous reasoning papers:

This table shows the heights of three mountains.

Mountain	Height in metres
Mount Everest	8,848
Mount Kilimanjaro	5,895
Ben Nevis	1,344

How much higher is Mount Everest than the combined height of the other two mountains?

Miss Mills is making jam to sell at the school fair.

Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.

Dev thinks of a **whole** number.

He multiplies it by 4

He rounds his answer to the nearest 10

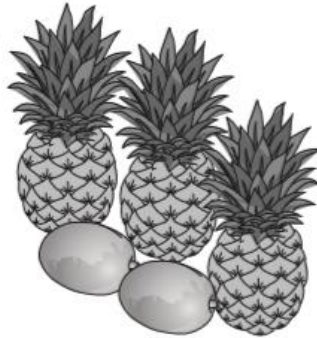
The result is 50

Write **all** the possible numbers that Dev could have started with.




Some examples from previous reasoning papers:

3 pineapples cost the same as 2 mangoes.
 One mango costs £1.35



How much does **one** pineapple cost?

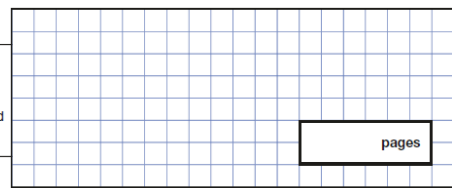
20 On Saturday Lara read $\frac{2}{5}$ of her book.



On Sunday she read the **other** 90 pages to finish the book.


How many pages are there in Lara's book?

Show your method



2 marks

Adam says,



0.25 is smaller than $\frac{2}{5}$

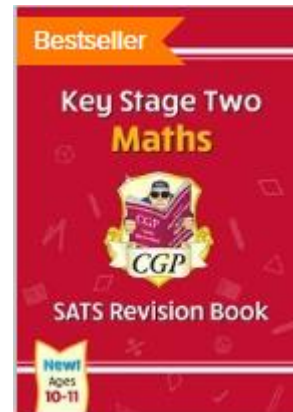
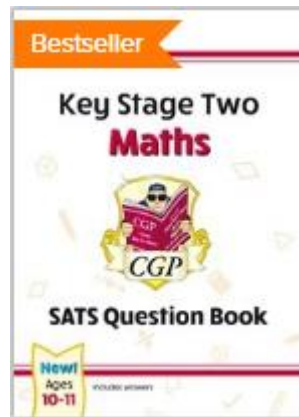
Explain why he is correct.

Ways to help your child



One of the most important ways is to sit down and talk to your child:

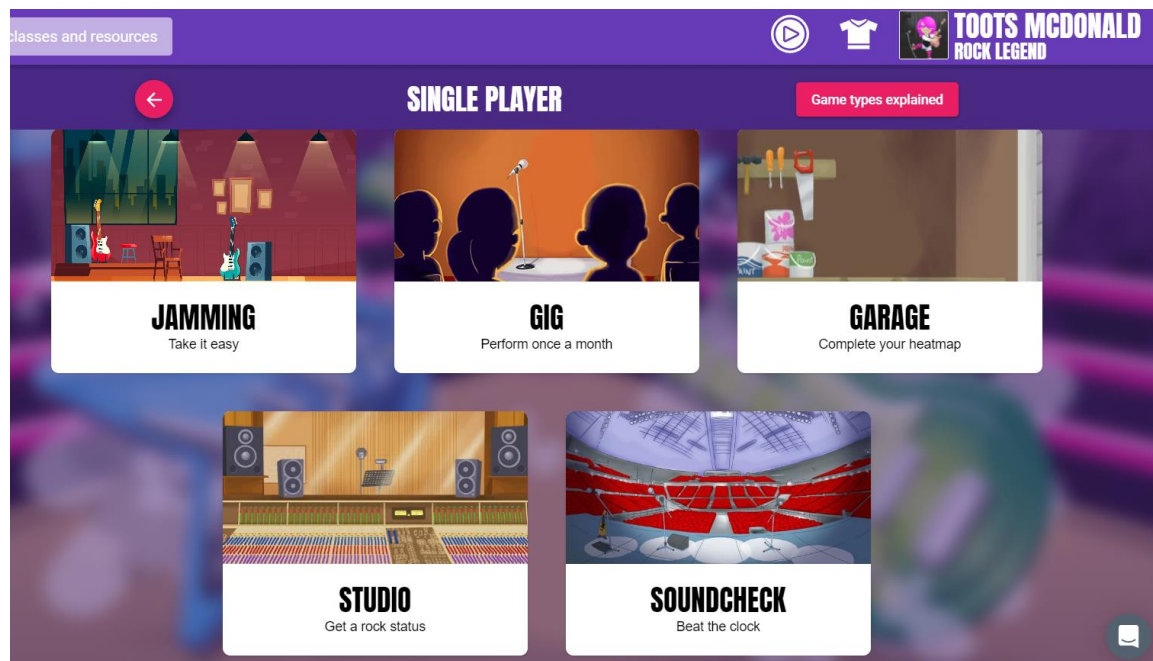
- ***Most importantly, be positive!***
- Discuss what they have been doing in each Maths lesson.
- Go through their homework tasks with them - Century
- Use the support materials – CGP books



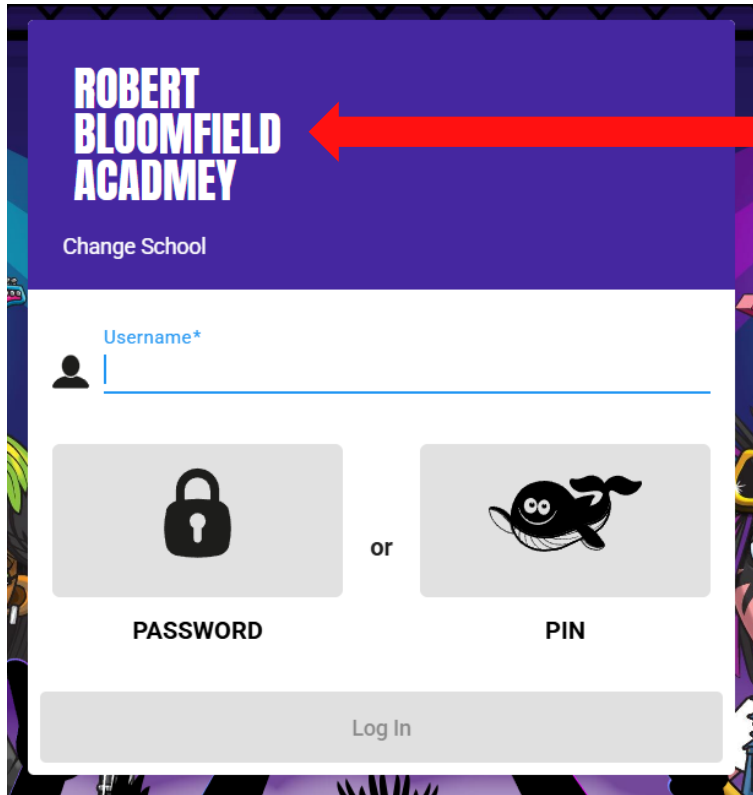
Times tables



- Encourage your child to spend 5 minutes daily on TT Rockstars – they have their own login and an app is available for free for phones / tablets



- Students will have their login and password – see Maths teacher if not!



Must choose Robert Bloomfield as the school (take care – there is another school with a similar name!)

CENTURY – our new online platform



Helen's Recommended Path ?

Multiplication Tables

Diagnostic: Multiplication Tables [PMT0.01]

Start

Mathematics

Diagnostic: Place Value [PAR0.01]

Mathematics

Diagnostic: Number and Place Value [PM0.21]

Mathematics

Diagnostic: Number and Place Value [PM0.34]

Multipl

2 Times Ti [P

Due Assignments ?

No Assignments yet!

Focus and Stretch

Sorry, there has not been enough activity for this yet

I am feeling neutral

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CENTURY – our new online platform



Use the
'Sign in with Google'
button

The screenshot shows a login interface for 'CENTURY ACTIONABLE INTELLIGENCE'. At the top left is a red geometric logo. Below it is the text 'CENTURY' in large red letters and 'ACTIONABLE INTELLIGENCE' in smaller red letters. There are two input fields: 'Username or email' and 'Password'. A link 'Forgot your password?' is next to the password field. Below the password field is a checkbox labeled 'Show password'. A large red button labeled 'SIGN IN' is below the form. Underneath is the word 'OR' and two more buttons: 'Sign in with Google' (with the Google logo) and 'Sign in with Office 365' (with the Office 365 logo). A red arrow points from the text on the right to the 'Sign in with Google' button.

Play Maths Games



There are many traditional games that can help with your child's maths fluency



Herts for Learning Essential Maths games on You Tube

Telling the time

- Telling the time is an important skill, using both analogue and digital clocks.

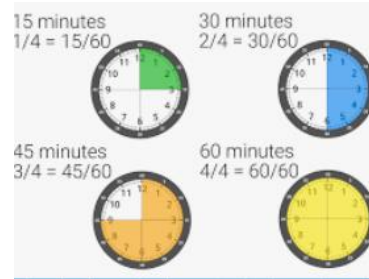


- Compare the time on both analogue and digital clocks – discuss the difference in language – ‘quarter past six’ rather than ‘six-fifteen’.
- If a child asks the time, don’t tell them – help them to work it out!
- Ask your child questions about the time – ‘How long until....?’

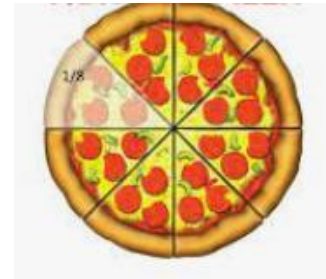


Fractions in daily life

Fractions are everywhere



- Telling the time
- Sharing food
- Smarties – what fraction of smarties are red / orange / blue
- Shopping – half price
- Fractions, decimals and percentage equivalents
- Cooking – half a kilo of flour – what is this in grams?



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Activities at home...



Baking

- Measuring ingredients – reading the intervals on different types of scales and measuring jugs
- Scaling recipes up or down for different numbers



Shopping

- Calculating prices and change
- Working out the best 'deals' – which deal is better?



DIY

- Using a ruler or a tape measure to measure objects around the house
- Use different units of measure (cm / mm / m) and convert between them



Estimating – discussing how you might estimate costs / sizes / weights

Telling the time – see previous slides

Activities at when travelling

- Sat Nav – distance / time
- Reading bus or train timetables
- Look at car number plates and make them into 'quick' calculations





What not to do.....

- Don't make it boring – help them to learn through play / games /
- Please don't download past SATs questions from websites – teachers use these in class.
- Don't fall out with your child – if they are struggling at home, get in touch with their maths teacher or encourage them to attend a homework club where a teacher can support them.





Positive Mindset

- The most important thing is to encourage a positive mindset
- Talk about maths you meet in daily life – point out the maths and make it fun
- Try to avoid using phrases like ‘We’re no good at maths in this family’ or ‘I never liked maths either’
- Try not to praise the outcome but praise the effort.
- DO tell encourage your child to keep trying and keep persevering even when they are finding the learning tricky.



Positive Mindset

Choose your language carefully

If you hear yourself thinking



Tell yourself



If you hear yourself thinking



Ask instead



Tell yourself



If you hear yourself asking

