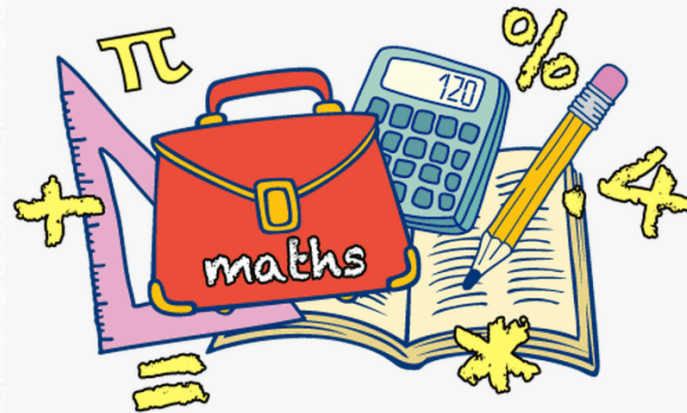


Year 6 Maths Workshop



Thursday 10th November

Our Aims

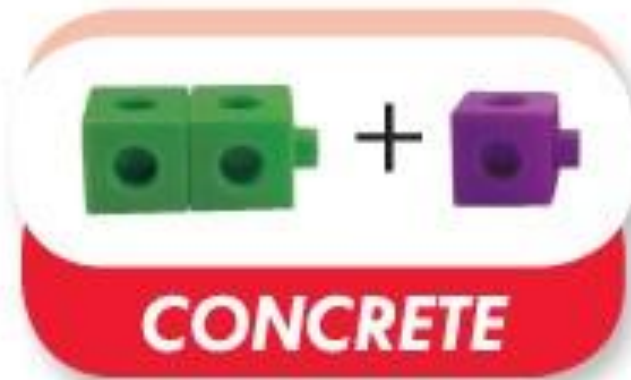
- To outline the teaching methods, resources and philosophies we use at Five Ways for mathematics.
- To give an overview of the Year 6 maths curriculum and how that feeds into the SATS requirements.
- To share ideas and resources to enable you to support your child for the year ahead.



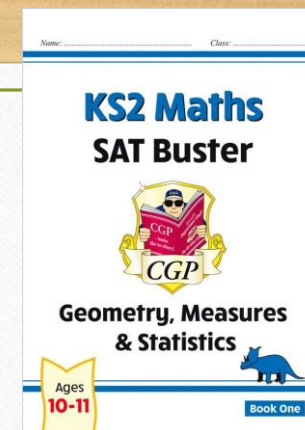
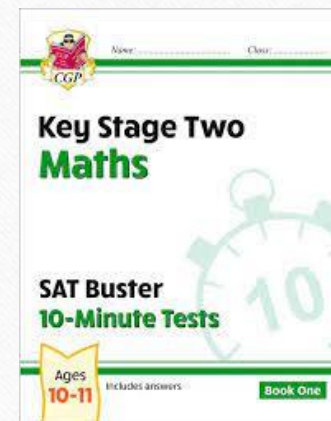
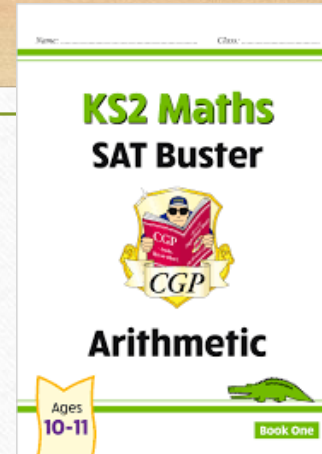
Our Maths Philosophy



- CPA model



- Power of the brain – revisit, revisit, revisit...



Yearly overview

The yearly overview provides suggested timings for each block of learning, which can be adapted to suit different term dates or other requirements.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value		Number Addition, subtraction, multiplication and division					Number Fractions A		Number Fractions B		Measurement Converting units
Spring	Ratio		Algebra		Number Decimals		Number Fractions, decimals and percentages		Measurement Area, perimeter and volume		Statistics	
Summer	Geometry Shape			Geometry Position and direction	Themed projects, consolidation and problem solving							



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I'm a...



I'm looking for...

Year 1

Year 2

Year 3

Year 4

Year 5

Year 6



Autumn Block 1
Place value



Autumn Block 2a
Four operations (a)



Autumn Block 2b
Four operations (b)



Autumn Block 3a
Fractions (a)



Autumn Block 3b
Fractions (b)



Number Match up Game

Place Value knowledge:

- What digit is in the ten thousands column?
- What digit is in the ones column?
- What digit is in the tens column?
- What digit is in the hundred thousands column.

What would the number be rounded to the nearest:

- 10?
- 100?
- 100?
- 10 000?
- 100 000?

Read the number out loud in words.

- Find two cards to make this work:

$$? > ?$$

- Find 3 cards to make this work:

$$? < ? > ?$$

- Order all the cards in descending order.
- Order all the cards in ascending order.

- What would the number be if I added 5000? etc
- What would the number be if I subtracted 5000? etc
- What would double/halve the number be?
- What do I need to add to my number to total 1million?
- Is the number divisible by 2,3,4,5,10? How do you know?

Place Value Chart

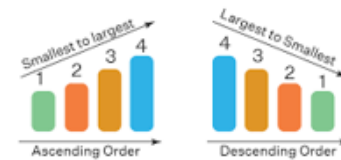
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

shutterstock.com - 2023023992

Rounding Rhyme:

Underline the digit
Look next door
If it's 5 or higher
add one more
If it's 4 or lower
just ignore.

Ascending and Descending Order



Five hundred and
twelve thousand,
four hundred and
ninety-seven

512, 497

Number of the Day Maths Fluency

write it:

Multiple of:

2 × 3 × 4 × 5 × 6 × 7 ×
8 × 9 × 10 × 11 × 12 ×

× 10 = _____

× 100 = _____

× 1000 = _____

$\frac{1}{2}$ = _____

$\frac{3}{4}$ = _____

$\frac{7}{10}$ = _____

Round to:

the nearest 10: _____

the nearest 100: _____

the nearest 1000: _____

Today's Number Is...



÷ 10 = _____

÷ 100 = _____

÷ 1000 = _____

Label the number line and show today's number.



Subtract 1784:

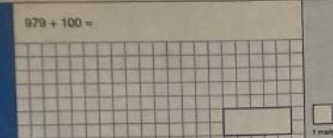
Add 6719:

Nearest prime number:

<, > or =

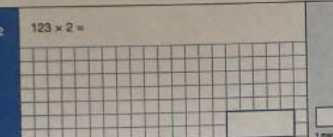
$12^2 \times 14 \times 10$ today's number

1 $979 + 100 =$



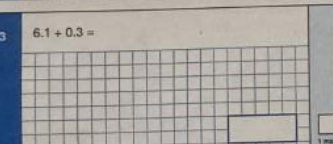
1 mark

2 $123 \times 2 =$



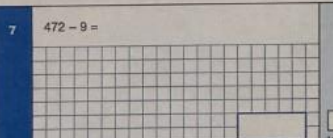
1 mark

3 $6.1 + 0.3 =$



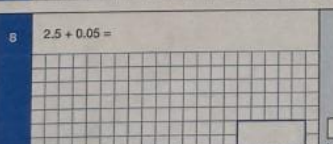
1 mark

7 $472 - 9 =$



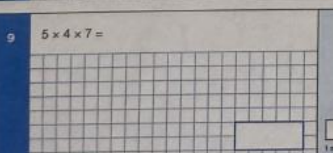
1 mark

8 $2.5 + 0.05 =$



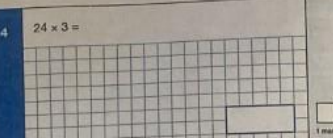
1 mark

9 $5 \times 4 \times 7 =$



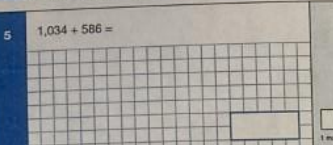
1 mark

4 $24 \times 3 =$



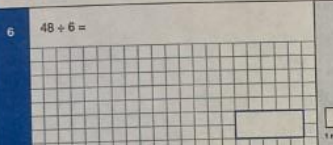
1 mark

5 $1,034 + 586 =$



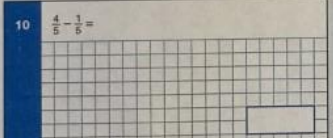
1 mark

6 $48 \div 6 =$



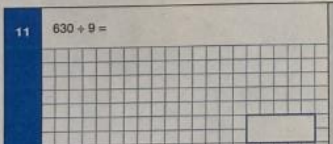
1 mark

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



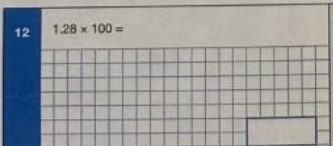
1 mark

11 $630 \div 9 =$




1 mark

12 $1.28 \times 100 =$



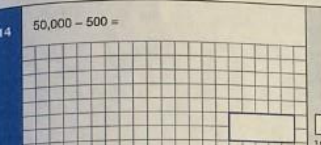
1 mark

13 $4^2 =$



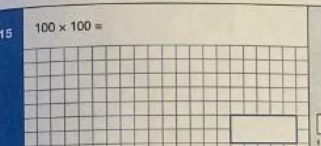
1 mark

14 $50,000 - 500 =$



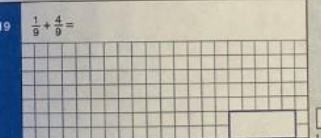
1 mark

15 $100 \times 100 =$



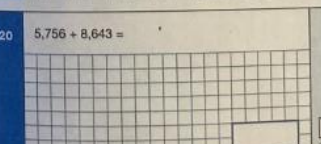
1 mark

19 $\frac{1}{9} + \frac{4}{9} =$



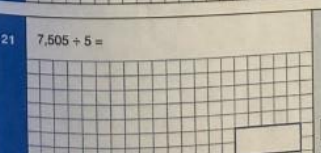
1 mark

20 $5,756 + 8,643 =$



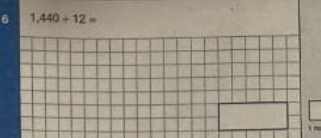
1 mark

21 $7,505 \div 5 =$



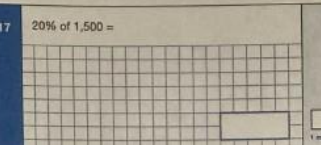
1 mark

16 $1,440 \div 12 =$



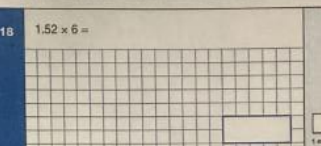
1 mark

17 20% of 1,500 =



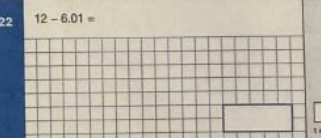
1 mark

18 $1.52 \times 6 =$



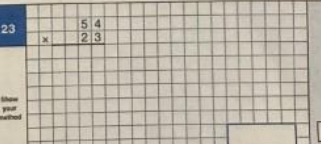
1 mark

22 $12 - 6.01 =$



1 mark

23



3 marks

2019 national curriculum tests

Key stage 2

Mathematics

Paper 1: arithmetic

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				



1	1079 ✓ 19. $\frac{5}{9}$ ✓
2	246 ✓ 20) 14399 ✓
3	6.4 ✓ 21) 1501 ✓
4	72 ✓ 225.99 ✓
5	1620 ✓ 23 1242 ✓
6	8 ✓
7	463 ✓
8	2.55 ✓
9	140 ✓
10	$\frac{3}{5}$ ✓

11	70 ✓
12	128 ✓
13	16 ✓
Question 13 commentary: Pu	
14	49500 ✓
15	10000 ✓
16	120 ✓
Question 16 commentary: Pu	
17	300 ✓
18	9.12 ✓

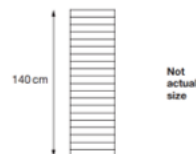
Key stage 2

Mathematics

Paper 2: reasoning

First name					
Middle name					
Last name					
Date of birth	Day		Month		Year
School name					
DfE number					

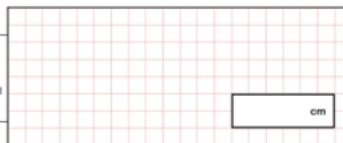
13 A stack of 20 identical boxes is 140 cm tall.



Stefan takes three boxes off the top.

How tall is the stack now?

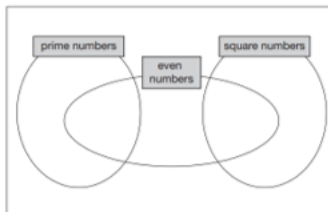
Show your method



2 marks

5 Write each number in its correct place on the diagram.

16 17 18 19



2 marks

9

6 pencils cost £1.66



3 pencils and 1 rubber cost £1.09



What is the cost of 1 rubber?

Show your method



2 marks

10

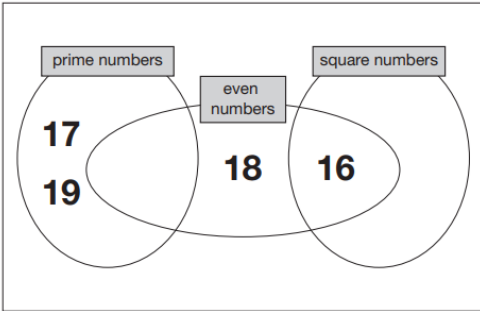
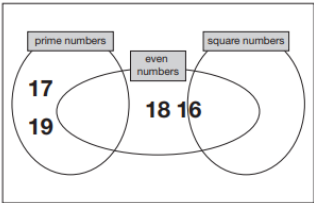
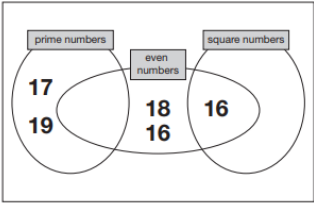
Each diagram below is divided into equal sections.

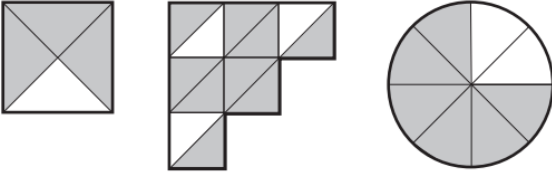
Shade three-quarters of each diagram.



2 marks

9	<p>Award TWO marks for the correct answer of 25p</p> <p>If the answer is incorrect, award ONE mark for evidence of an appropriate method, e.g.</p> <ul style="list-style-type: none"> $168 \div 2 = 84$ $109 - 84$ <p>OR</p> <ul style="list-style-type: none"> $168 \div 6 = 28$ $3 \times 28 = 84$ $109 - 84$ 	Up to 2m	<p>Accept for TWO marks, an answer given in the acceptable notation (see page 10 for guidance).</p> <p>Answer need not be obtained for the award of ONE mark.</p> <p>Accept for ONE mark an answer of 0.25p OR £25p OR £25 as evidence of an appropriate method.</p>
---	---	----------	---

5	<p>Award TWO marks for all four numbers placed correctly as shown:</p>  <p>If the answer is incorrect, award ONE mark for three numbers placed correctly.</p>	Up to 2m	<p>Accept alternative unambiguous indications, e.g. lines drawn from the numbers to the appropriate regions of the diagram.</p> <p>Do not accept numbers written in more than one region, e.g.</p>  <p>OR</p> 
---	--	----------	--

10	<p>Award TWO marks for all three diagrams completed to show three-quarters shaded, e.g.</p>  <p>If the answer is incorrect, award ONE mark for two diagrams correct.</p>	Up to 2m	<p>Accept alternative unambiguous indications of parts shaded.</p>
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13	<p>Award TWO marks for the correct answer of 119</p> <p>If the answer is incorrect, award ONE mark for evidence of an appropriate method, e.g.</p> <ul style="list-style-type: none"> $140 \div 20 = 7$ $3 \times 7 = 21$ $140 - 21$ <p>OR</p> <ul style="list-style-type: none"> $140 \div 20 = 7$ $20 - 3 = 17$ 17×7 	Up to 2m	<p>Answer need not be obtained for the award of ONE mark.</p>
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**Why did the
obtuse angle jump
in the pool?**

Because it was
over 90 degrees.

