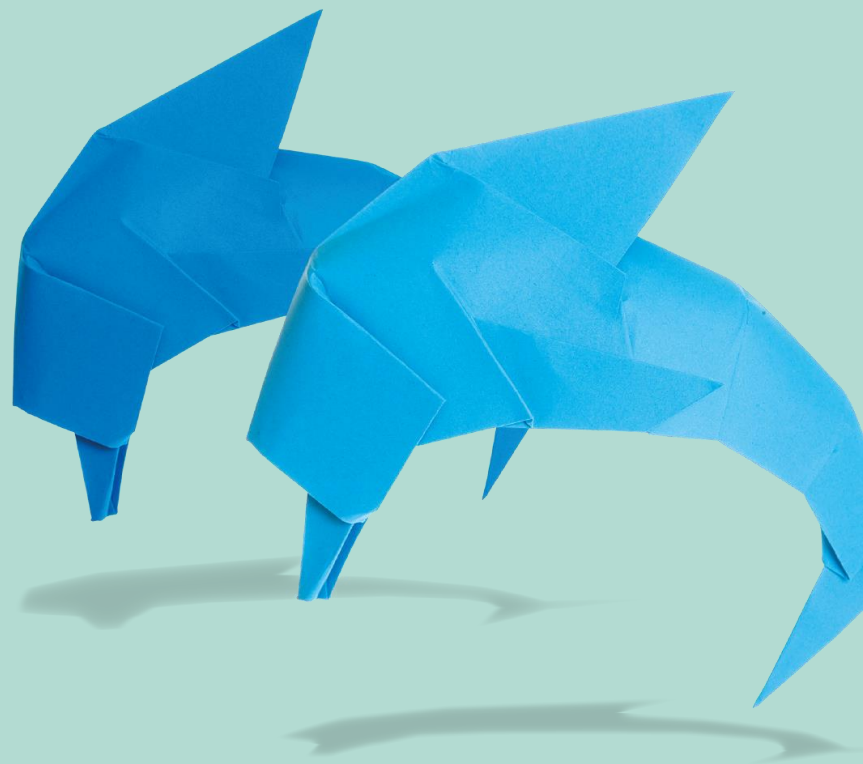


# GCSE Mathematics

Delivering GCSE Maths:  
Everything You Need to  
Know – General Methods  
and Visual Representations

Christian Seager &  
Melanie Muldowney





# Remember ...

Delivering GCSE Maths:  
Everything you need to know

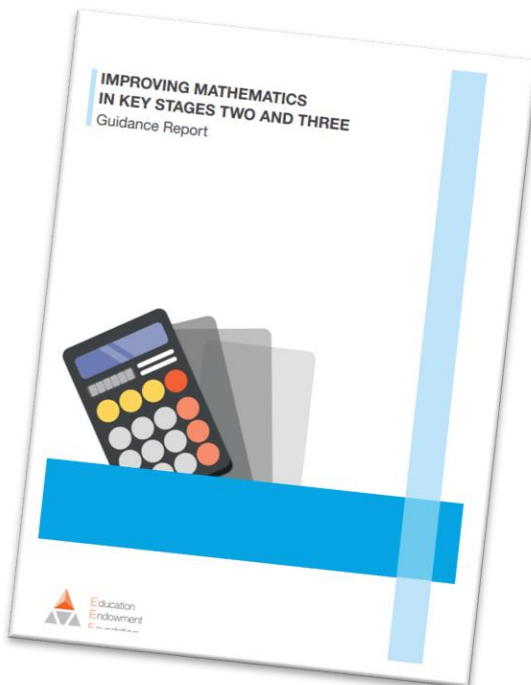
Part 1 – The Basics (4/10/23)

Part 2 – Tools and Resources (29/11/23)

Part 3 – Marking Essentials (10/01/24)

# This session ...

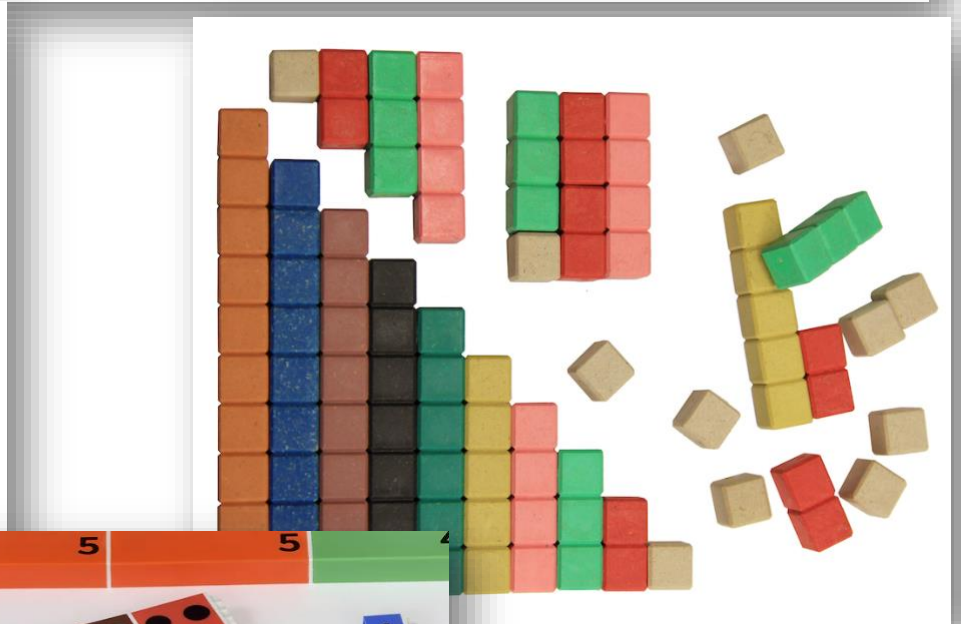
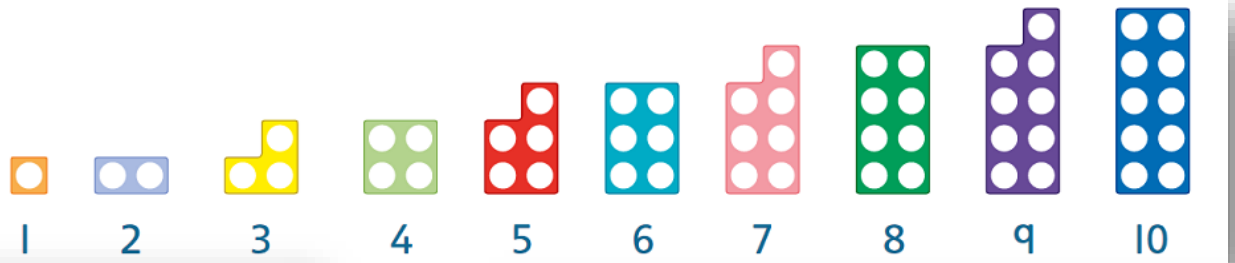
- Teaching methods and strategies useful across topics
  - Familiarity helps build on prior knowledge and make links
- Hints and tips for exam success



## Recommendations

Recommendation 1	Use assessment to build on pupils' existing knowledge and understanding
Recommendation 2	Use manipulatives and representations
Recommendation 3	Teach strategies for solving problems
Recommendation 4	Enable pupils to develop a rich network of mathematical knowledge
Recommendation 5	Develop pupils' independence and motivation
Recommendation 6	Use tasks and resources to challenge and support pupils' mathematics
Recommendation 7	Use structured interventions to provide additional support
Recommendation 8	Support pupils to make a successful transition between primary and secondary school

# The basics

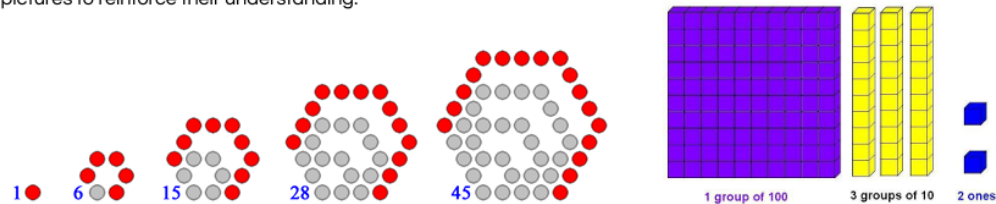


# The basics – Barns Green Primary School

## Maths methods we use in school

### Key Stage Two

It's really important in key stage two that the children understand the basics of mathematics before completing standard written methods. At school, we use lots of equipment to show their mathematical thinking. Then we move to drawing out pictures to reinforce their understanding.



It's also important that the children can build up a picture in their mind of numbers 'fitting together'. As they move through key stage 2 they start to learn their times tables facts (numbers that are multiplied) and pictures can help.

It can be very tempting to show the children the 'quick way' of writing down calculations in the standard column method but this can lead to confusion later on. Using practical resources and objects really helps their understanding of adding, subtracting, multiplying and dividing.

**Tip for at home learning:** Use whatever you have around the house to help the children with their calculations e.g. Lego, toys, sticks, or draw pictures!

Below are some of the methods we use at school, we always start with the 'Concrete' method before moving on to the 'Pictorial' or 'Abstract' methods:

### Addition

(We also use the words: parts and wholes, plus, add, altogether, more, total, sum, 'is equal to', 'is the same as'.)

# The basics



 $3 \times 2$	 $-1 + -2$	 $3x - 4$ if $x = -3$
 $3x - 1 = 5$	 $x^2 = 4$	 $(-2x + 3) + (x + 1)$

 $x^2$	 $2$
 $3x$	 $6$

$4x$

$6$

$2x^2 + 3x - 6$

$2x^2 + 3x - 6$

$-x^2 + 2x + 4$

$-x^2 + 2x + 4$

# The basics ... multiplication

x	30	6	Sum
10	300	60	360
4	120	24	144
			504

	1	4	2	3	
	1	4	2	3	1
2	7	8	4	1	7
4	5	0	0	1	5
	9	0	2	5	

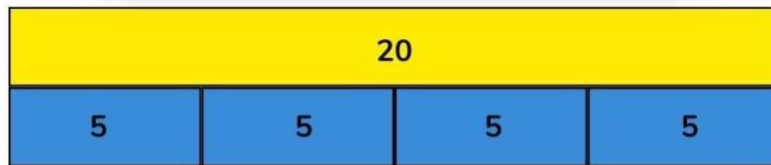
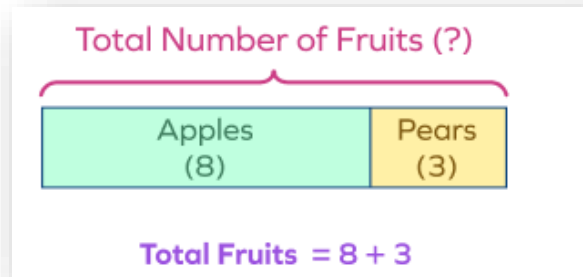
$$\begin{array}{r}
 12 \\
 124 \\
 \times 26 \\
 \hline
 744 \\
 2480 \\
 \hline
 3224
 \end{array}$$

<b>×</b>	20	6
5	100	30

**= 130**



# Bar Models

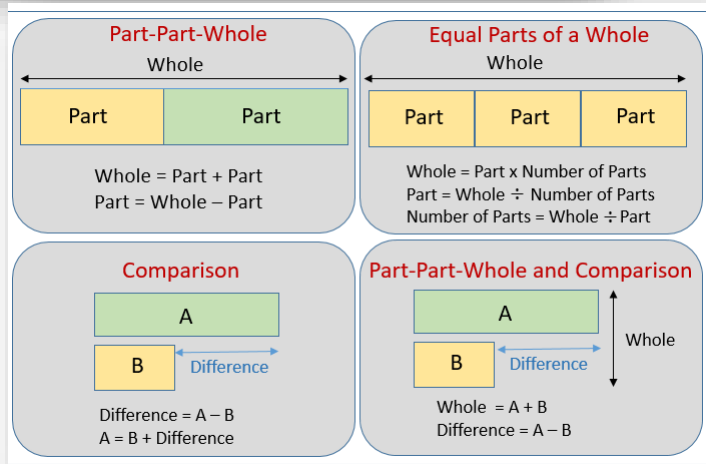


$$5 + 5 + 5 + 5 = 20$$

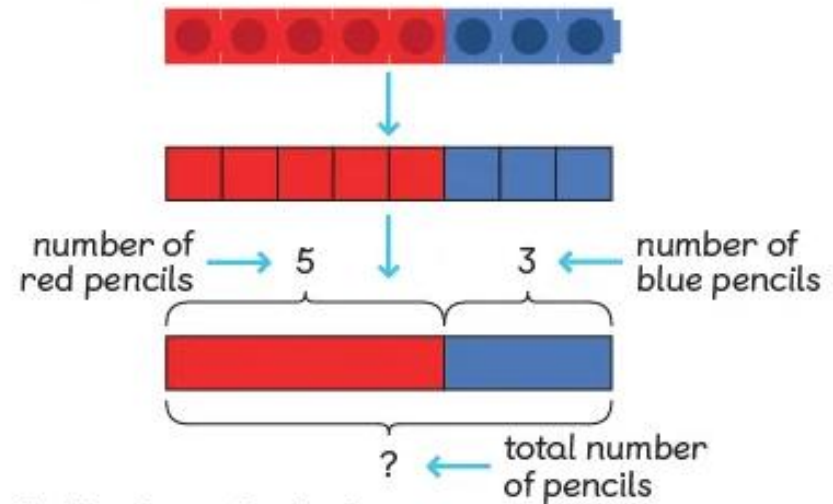
$$20 \div 4 = 5$$

$$5 \times 4 = 20$$

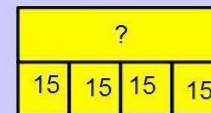
$$20 \div 5 = 4$$



Use to show the number of pencils.

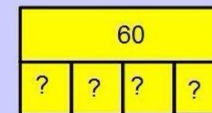


Whole unknown...



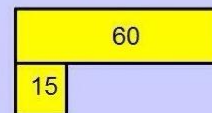
4 children go to the cinema. They each pay £15. How much do they spend altogether?

Size of groups unknown...



4 children go to the cinema. They pay £60 altogether. How much do they spend each?

Number of groups unknown...



Tickets to the cinema are £15. Some children buy tickets that cost £60. How many children bought tickets?

Not just ratio ...  
reverse %



# Proportion Tables / Arrow Diagrams

Diagram showing a proportion table with values 6, 540, 5, and 450. Arrows indicate multiplication by 90: from 6 to 540 and from 5 to 450.

6	540
5	450

Cost (\$)	Pounds of Apples
15	5
36	12
45	15
60	20

Diagram showing a proportion table with values x, 5, 10, 20 and y, 3, 6, 12. Arrows indicate division by 2 (from 10 to 5 and from 6 to 3) and multiplication by 2 (from 5 to 10 and from 3 to 6).

x	5	10	20
y	3	6	12

# of Mules	Bales of Hay
2	1
4	2
6	3
8	4
10	5

Diagram showing a proportion table with values Number of copies (20, 200, 10, 190) and Time (secs) (12, 120, 6, 114s). Arrows indicate multiplication by 10 (from 20 to 200 and from 12 to 120) and division by 2 (from 10 to 5 and from 6 to 3).

Number of copies	20	200	10				190
Time (secs)	12	120	6				114s

# Constantly reminding : 'Direct Proportion'

10 Here are the ingredients needed to make 20 peanut butter cookies.

Makes 20 cookies

250 g peanut butter

200 g sugar

2 small eggs

Derek wants to make 60 cookies.

He has 900 g of peanut butter.

Does Derek have enough peanut butter to make 60 cookies?  
You must show how you get your answer.

13 Chloe is making scrunchies.

Chloe has a large number of hair bands.

Each hair band costs 8p.

She buys 100 g of wool for £3

Chloe uses 1 hair band and 5 g of wool to make each scrunchy.

She makes as many scrunchies as she can.

Work out the total cost of each scrunchy that she makes.

Give your answer in pence.

# Constantly saying 'Direct Proportion'

Chloe is making scrunchies.  
Chloe has a large number of hair bands.  
Each hair band costs 8p.  
She buys 100 g of wool for £3  
Chloe uses 1 hair band and 5 g of wool to make each scrunchy.  
She makes as many scrunchies as she can.  
Work out the total cost of each scrunchy that she makes.  
Give your answer in pence.

Handwritten work:

$$1 \text{ hb} = 8\text{p} = 0.08$$

$$100 \text{ g} = £3 \rightarrow 100 \div 3 = 33.33 \text{ g}$$

$$100 \div 5 = 20$$

$$20 \times 0.15\text{p} = 3\text{p}$$

$$151 \quad 1208$$

$$302 \quad 1359$$

$$453 \quad 1500$$

$$604$$

$$755$$

$$906$$

$$1057$$

$$1110 = \text{wool}$$

$$300 = \text{wool}$$

$$60\text{p} = \text{wool}$$

$$18 = \text{hairband}$$

$$£8.60$$

(Total for Question 13 is 4 marks)

13 Chloe is making scrunchies.  
Chloe has a large number of hair bands.  
Each hair band costs 8p.  
She buys 100 g of wool for £3  
Chloe uses 1 hair band and 5 g of wool to make each scrunchy.  
She makes as many scrunchies as she can.  
Work out the total cost of each scrunchy that she makes.  
Give your answer in pence.

Handwritten work:

$$1 \text{ hair band} = 8\text{p}$$

$$100\text{g wool} = £3 \div 20 = 15\text{p}$$

$$100 \div 20 = 5\text{g}$$

$$£3 \div 2 = £1.50 = 50\text{p}$$

$$1.50 \times 2 = 75\text{p} = 25\text{g}$$

$$75\text{p} \div 5 = 15\text{p} = 5\text{g}$$

$$8\text{p} \times 20 = £1.60$$

$$15\text{p} \times 20 = £3.00$$

$$8\text{p} + 15\text{p} = 23$$

$$£1.60 + £3.00 = £4.60$$

$$460\text{p}$$

4

(Total for Question 13 is 4 marks)

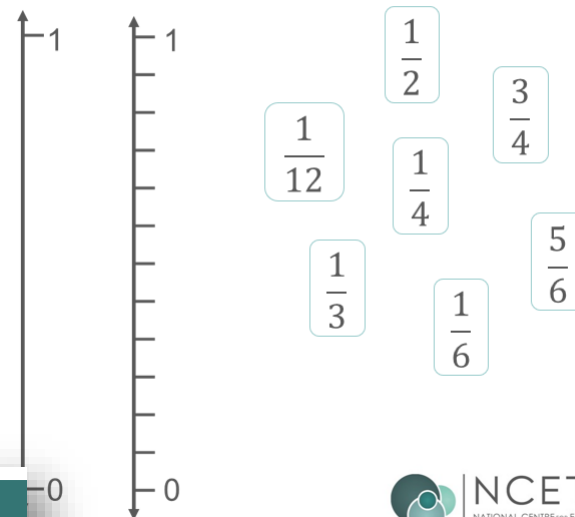
Year 11 - Mock Set 2 Foundation Paper 1

Recipes, exchange rates, best buys, percentages etc etc

## Additional activity F: Estimating fractions

- Estimate where each fraction will sit on the number line.
- Now mark each fraction accurately on the second number line.

**?** Mark some fractions that have denominators that are not a factor of 12.



## Checkpoint 17: Three in a row



Asif and Jan are playing a game of 'Three in a row'. The aim is to mark three fractions in a row on the number line, without the other person marking their fractions in between.

They each choose a fraction in turn and mark its position on the number line with their name.

Asif could win if he gets three fractions in a row on his next turn.

It's Jan's turn next. How could she stop Asif from winning on his next turn?

**?** How would your answer be different if Asif's second cross was at  $\frac{2}{5}$  rather than  $\frac{1}{5}$ ? How about  $\frac{3}{5}$ ?

Use number lines for  
time questions too.

# Learn to love a two-way table

148 students each choose to study Geography or to study History.

72 of the students choose History.

34 boys choose Geography.

28 girls choose History.

Use this information to complete the two-way table.

	Geography	History	Total
Boys			
Girls			
Total			

Use them for all compound  
measures & reverse mean

# Frequency – style trees also help get organised

There are 165 counters in a bag.

Each counter is either black or white.

There are twice as many black counters as white counters in the bag.

Martine takes 40% of the black counters from the bag.

Work out the ratio of the number of black counters to the number of white counters now in the bag.  
Give your ratio in its simplest form.

Use them for all compound  
measures & reverse mean

# Year 11 ... this may be useful

## JustMaths Methods

A selection of questions collated to explore the different methods you could use across a variety of topics.

Name: \_\_\_\_\_

Total Marks: \_\_\_\_\_

### JustMaths

Q1. Here is a list of four fractions.

$$\frac{4}{16} \quad \frac{2}{8} \quad \frac{15}{60} \quad \frac{3}{9}$$

One of these fractions is not equivalent to  $\frac{1}{4}$

Write down this fraction.

be explicit about using the 'arrows' to the top and bottom

$$\begin{array}{l} \frac{4}{16} \div 4 = \frac{1}{4} \\ \frac{2}{8} \div 2 = \frac{1}{4} \\ \frac{15}{60} \div 15 = \frac{1}{4} \\ \frac{3}{9} \div 3 = \frac{1}{3} \end{array}$$

.....  $\frac{3}{9}$  ..... (1)

Q2. Write  $\frac{4}{50}$  as a percentage. *emphasise "out of 100"*

'arrow' diagrams also work horizontally

$$\frac{4}{50} \xrightarrow{\times 2} \frac{8}{100} = 8\%$$

..... 8 ..... % (1)

Q3. There are 210 counters in a bag.  
30% of these counters are red.  
Work out the number of red counters in the bag.

210

$$\begin{array}{l} 30\% = \text{red} \\ 10\% = 21 \\ 30\% = 63 \end{array}$$

not red = 70%

..... 63 ..... (2)

Q4. Increase 240 by 20%

$$\begin{array}{l} 10\% = 24 \\ 20\% = 48 \\ 240 + 48 = 288 \end{array}$$

Look out for "what is x% of" type questions... students think this is the same as "what is x% off"

..... 288 ..... (3)

### JustMaths

Q5. There are 84 calories in 100 g of banana.  
There are 87 calories in 100 g of yogurt.  
Priti has 60 g of banana and 150 g of yogurt for breakfast.  
Work out the total number of calories in this breakfast.

Banana

$$\begin{array}{l} 84 \text{ calories} = 100\text{g} \\ \div 10 \rightarrow 8.4 \text{ calories} = 10\text{g} \\ \times 6 \rightarrow 50.4 \text{ calories} = 60\text{g} \end{array}$$

Yogurt

$$\begin{array}{l} 87 \text{ calories} = 100\text{g} \\ \div 2 \rightarrow 43.5 \text{ calories} = 50\text{g} \\ \times 3 \rightarrow 130.5 \text{ calories} = 150\text{g} \end{array}$$

Note... units are written down too...

$$\text{Total calories} = 50.4 + 130.5$$

we refer to this as scaling up or scaling down.

$$180.9$$

..... (4)

Q6. Here is a list of ingredients for making 10 scones.

Mia wants to make 25 scones.  
Work out how much sugar she needs.

#### Ingredients for 10 scones

75 g	butter
350 g	self-raising flour
40 g	sugar
150 ml	milk
2	eggs

Scaling down is often done above the original amount

$$\begin{array}{l} \div 2 \rightarrow 5 \text{ scones} = 20\text{g sugar} \\ \div 2 \rightarrow 10 \text{ scones} = 40\text{g sugar} \\ \times 2 \rightarrow 20 \text{ scones} = 80\text{g sugar} \end{array}$$

$$25 \text{ scones} = 5 + 20 = 20\text{g} + 80\text{g} = 100\text{g}$$

..... 100g ..... g (2)





# Hints and Tips

- Split the page!
- Break the question down. Draw a diagram / bar model ...
- Write down everything (particularly what was on the calculator!)

# Share with students/parents ...

**SEPTEMBER... A LITTLE BIT OF MATHS EVERY DAY** JustMaths

1 What is 50% written as a fraction?	2 Calculate $34 \times 12$	3 List the factors of 8	4 What is the first EVEN multiple of	5 If a typist can type 40 words per minute, how long will it take to type 50 pages with	6 $\frac{3}{5} - \frac{2}{5}$
--------------------------------------	----------------------------	-------------------------	--------------------------------------	---	-------------------------------

**SEPTEMBER... A LITTLE BIT OF MATHS EVERY DAY** JustMaths


1 Chris weighs 12 stone 8 pounds. Pico weighs 85 kilograms. Mike is heavier, and by how much? 1 stone is 14 pounds. 1 kilogram is approximately 2.2 pounds.	2 Calculate $(3.7 \times 10^5) + (4.1 \times 10^5)$ .	3 Round 0.000698765 to 1 significant figure	4 What is the remainder when 250 is divided by 8?	5 Simplify fully $\frac{4m^2 \times m^5}{2m^4}$	6 Dawn invests £8240 for 2 years at 3% per annum compound interest. Find the compound interest earned in two years?	7 Write 510 as a product of its prime factors
8 The total cost of 4 magazines is £3.60. Each magazine costs the same amount. How much do 11 magazines cost?	9 Solve $x - 7 = 11$	10 A shape is made up of five identical rectangles. The area of the complete shape is 500 m <sup>2</sup> . The width of each rectangle is 4 m. Calculate the length of one of the rectangles	11 Factorise $x^2 + 2x - 15$	12 Julia & Hannah earned £45 by washing cars. They agreed to share the money in the ratio of the time they each spent washing cars. Julia washed cars from 10:15 a.m. to 11:45 a.m. and Hannah washed cars from 1:45 p.m. to 4:45 p.m. How much did each person receive?	13	14
15 Emma has 163 marbles. Laura has 285 marbles. Laura gives some marbles to Emma so that they both have the same number of marbles. How many marbles does Laura give to Emma?	16 Find the value of $6x + 2y$ when $x = 7$ and $y = -10$ .	17 Given: $18 = 7 + a$ $a + 5 = 10 + b$ Work out the value of a and b	18 What is the median number? 20, 5, 1, 40, 17, 15	19 Find 2.7% of 54. Give your answer correct to 2 decimal places	20 Seven times a whole number, x, subtract twenty-six is greater than forty-four. What is the least possible value of this whole number?	21 Calculate: $1\frac{2}{5} + \frac{3}{8}$
22 Which metric unit which is best used for: - length of a pencil, - distance from London to Paris, - volume of a swimming pool?	23 Use either the symbol < or > to make each statement true. 3 _____ 7 -15 _____ 11 -4 _____ -5	24 Solve the equation $8y - 3 = 2(2y + 8)$	25 Find the sum of $1\frac{2}{5}$ of 570 and $2\frac{3}{11}$ of 6204	26 Calculate the size of angle x	27	28


**REMEMBER:** The best way to revise maths is to "do Maths"!


Crossover (H and F)

www.justmaths.co.uk


# Bread and Butter ... repetition


JustMaths  **Simplify**  $6x + 9y + 2x - 3y$  1.1


  $37 \times 120$


 Draw a stem and leaf diagram to show the below information.  
You must include a key.


**Expand**  $4(2x + 5)$  35 47 45 53 61 53 38 62  
58 52 34 41 50 46 45 38


 Share £60 in the ratio of 2:3



 **factorise**  $3x + 12$

 Express 48 as a product of prime factors


 **Expand**  $(x + 2)(x + 3)$

 What is  $x$ ?  
Give reasons for your answer



  $2.47 \times 38$  

www.justmaths.co.uk © JustMaths 2014

 **Calculate**  $126 \times 12$

100 students were asked how they came to school one day.  
Each student walked or came by bicycle or came by car.  
49 of the 100 students are girls.  
10 of the girls came by car.  
16 boys walked.  
21 of the 41 students who came by bicycle are boys.  
Draw a frequency tree to represent this information.

**Calculate**  
 $16.5 - 9.72$

**Calculate**  
 $12 \div 0.5$

Round 3489 to the nearest 1000

List the factors of 40

**Calculate**  $\frac{2}{9}$  of 27

Insert the appropriate symbol  $>$   $<$   $\geq$   $\leq$   $=$

8  $\underline{\hspace{1cm}}$   $16 \div 2$   
18  $\underline{\hspace{1cm}}$  22

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# 1 Markers

## One Markers



(Unless otherwise stated)

1

Work out the value of  $2^4$

6

Here are four digits:

5 6 1 9

Write down the smallest possible two digit number that can be made with two of the digits

2

Write 7.26451 correct to 3 decimal places

7

Work out  
 $2 \times 7 + 10$

3

Simplify  $7 \times e \times f \times 8$

8

Write down a multiple of 6 that is between 40 and 50

4

Write  $\frac{4}{5}$  as a percentage

9

Write in order of size. Start with the smallest number

0.078    0.78    0.87    0.708

5

Write 20% as a fraction

10

Change 4560 g into kg

# ONE-WEEK HOLIDAY CHALLENGE (F)

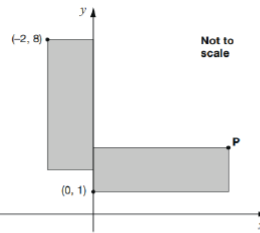
HOW MANY CAN YOU DO? ... HOW MANY WILL YOU DO?

## Spice things up ..

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
<b>CALCULATE</b> $80 \div 1000$	A square has a perimeter of 36cm, what is its area?	$\frac{2}{5}$ of a number is 8. What is the number?	Calculate: $\frac{1}{2} \div 0.35$	What is 25% of 16?	Round 1787 to the nearest a) ten b) hundred c) thousand	What number is halfway between -10 and -1?

These two rectangles are identical. The length of each rectangle is three times its width.

What are the coordinates of P?



Not to scale

Expand  
 $4y(y + 2)$

**MISH MASH 1**

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

List the first three multiples of 16

Simplify

$$x^2 \times x^5$$

Write down the ratio of 1.2 kg to 400g  
Give your answer in its simplest form

What is the mathematical name of this shape?



Factorise  
 $5x^2y + 10x$

Simplify

$$x^2 + x^5$$

$$\frac{3}{5} \div \frac{1}{4}$$

Put in size order, smallest first  
7 -7 -10 2 0

What is 0.37 as a percentage?

Here is a two-stage number machine. It multiplies by 4 and then subtracts 3



Round 27 789 to the nearest 100

Work out:

$$\frac{5}{8} \text{ of } 320$$

Work out 15% of 500

Work out 15% of 84

What is the LCM of 15 and 12?

$$4.2 \times 10^4$$

### HINTS

When adding or subtracting make sure you line up the units column

1 metre = 100 cm  
1000 g = 1 kg  
1 litre = 1000 ml

Product means "multiplication"

Draw a number line when dealing with negative numbers

... You CAN do this!!!

### ANSWERS

IF THE ANSWER ISN'T HERE CHECK YOUR WORKING OUT!!  
CROSS OFF THE ANSWERS AS YOU WORK THROUGH THE QUESTIONS

200	11
27	4.2
8.2	457
10.5	28000
68	
8.4	
-3	
42	
75	
42000	
2.81	
30	
60	
9.87	
6	
$2^3 \times 7$	

EDEXCEL FOUNDATION PAPER 1 2023

START →

Write 520 as a product of its prime factors

Share £96 in the ratio 2:4

Write 8.234 56 correct to 3 decimal places.

A number 3.7 is rounded to 1 decimal place. What is the error interval?

94 children went on a school trip. They went to London or to Manchester. 20 boys and 19 girls went to London. 16 boys went to Manchester. Draw a frequency tree to represent this information

A "thing" is reduced in a sale by 30%. The sale price is £140. What was the original price?

$$\text{Calculate } \frac{2}{7} + \frac{1}{3}$$

Which is bigger?  
50% of £40 or 40% of £50

$$\text{Calculate } \frac{3}{5} \times \frac{1}{8}$$

$$\text{Solve } 2x + 3 = 10$$


A PC costs £600. It depreciates at 10% per annum. How much is it worth at the end of 2 years?


16 cm





The area of the rectangle is 6 times the area of the triangle. Work out the width of the rectangle.

# Crossover

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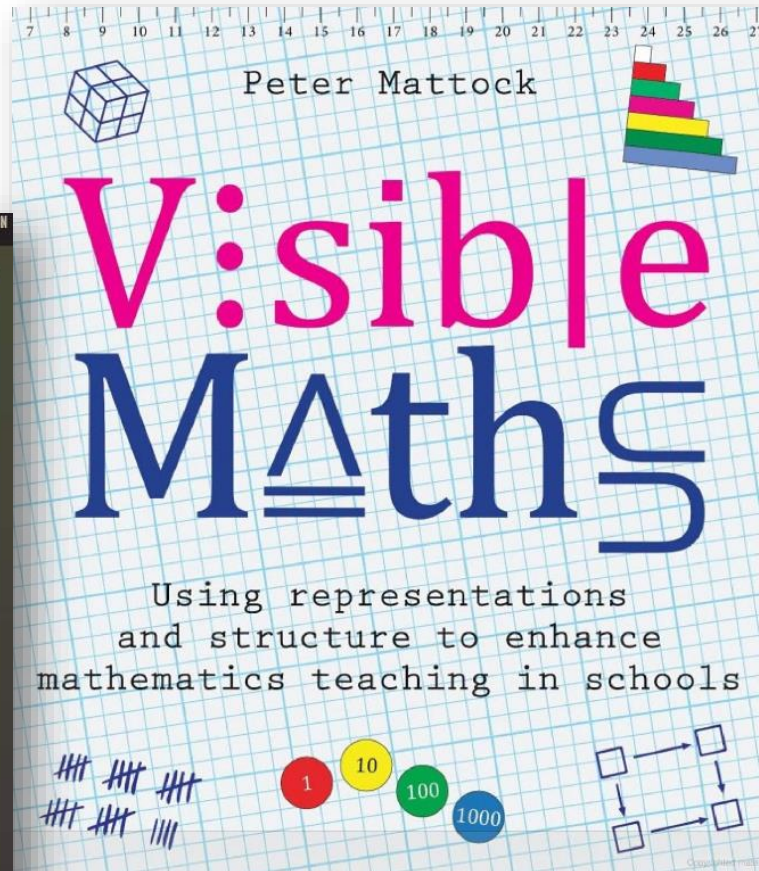
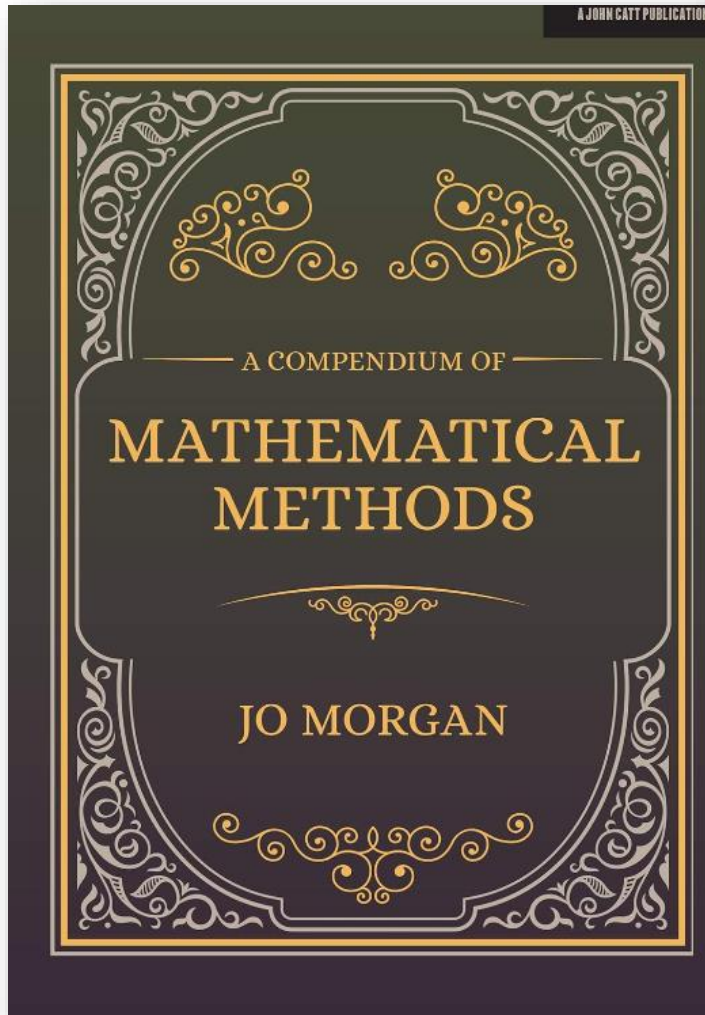
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# Further reading





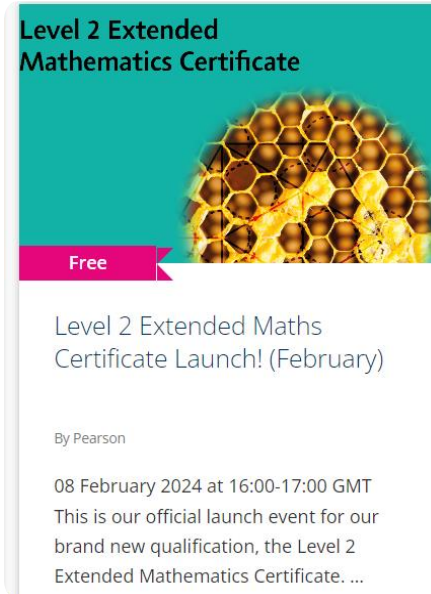
# Extended Maths Certificate

Extended Maths Certificate Launch Event 1 –  
Thursday 8 February

Extended Maths Certificate Launch Event 2 –  
Tuesday 19 March

Get Ready to Teach EMC 1 – Thursday 13 June  
Get Ready to Teach EMC 2 – Tuesday 25 June

Please click on the link if you are interested in  
registering for any of the above events. [Pearson  
PD Academy](#)



Level 2 Extended  
Mathematics Certificate

Free

Level 2 Extended Maths  
Certificate Launch! (February)

By Pearson

08 February 2024 at 16:00-17:00 GMT  
This is our official launch event for our  
brand new qualification, the Level 2  
Extended Mathematics Certificate. ...




# Remember ...

Delivering GCSE Maths:  
Everything you need to know

Part 5 – Exam hints and Tips (24/04/24)

Book your place [here](#)

## GCSE (9-1) Mathematics





Free


### Delivering GCSE Maths: Everything You Need to Know – Exam Preparation Hints...

By Pearson

24 April 2024 at 16:00-17:00 BST This event will look at supporting examination groups. This could be managing exam anxiety through to key revision r...

 1hr

 24-Apr-2024

 Online Scheduled

Contact or arrange a visit:

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[mel@justmaths.co.uk](mailto:mel@justmaths.co.uk)



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Pearson