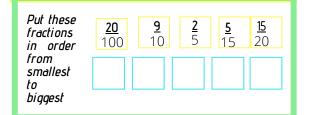
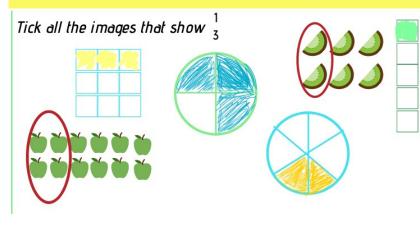
Compare and order fractions whose denominators are all multiples of the same number





Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths



Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements greater than 1 as a mixed number

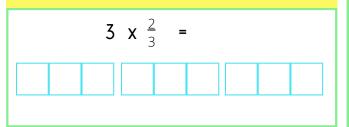
Calculation	Improper Fraction	Mixed Number
$\frac{5}{8} + \frac{6}{8} =$		
$\frac{3}{5} + \frac{4}{5} + \frac{2}{5} =$		
-		

Write the answers to these calculations as an improper fraction and mixed number

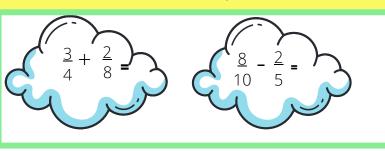
Round decimals with two decimal places to the nearest whole number and to one decimal place

Original number	Round to nearest whole number	Round to nearest tenth
235.62		
188.18		
209.65		

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams



Add and subtract fractions with the same denominator and denominators that are multiples of the same number



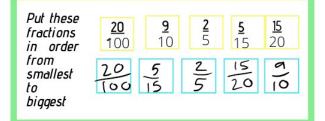
Solve problems involving number up to three decimal places

Each cell is the sum of the two cells below it. Fill in the missing values. 2.5

0.155

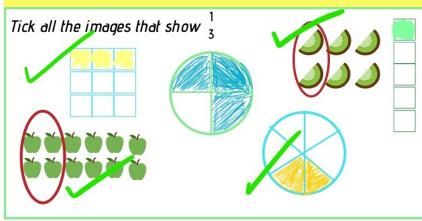
1.545

Compare and order fractions whose denominators are all multiples of the same number



# Year 5 Fractions ANSWERS

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths





Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements greater than 1 as a mixed number

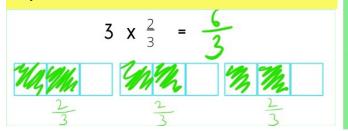
Calculation	Improper Fraction	Mixed Number
$\frac{5}{8} + \frac{6}{8} =$	11/8	m 00
$\frac{3}{5} + \frac{4}{5} + \frac{2}{5} =$	مام	45

Write the answers to these calculations as an improper fraction and mixed number

Round decimals with two decimal places to the nearest whole number and to one decimal place

Original number	Round to nearest whole number	Round to nearest tenth
235.62	236	235.6
188.18	188	188.2
209.65	210	209.7

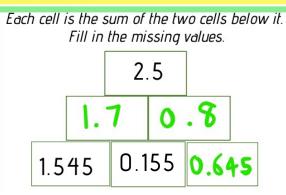
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

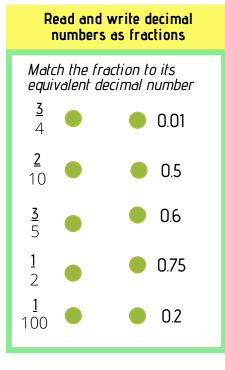


Add and subtract fractions with the same denominator and denominators that are multiples of the same number

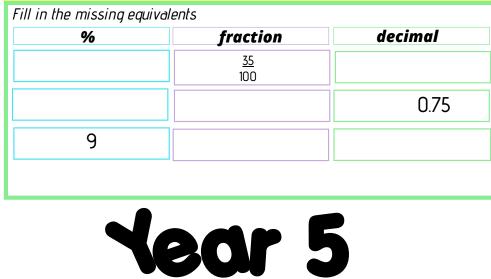


Solve problems involving number up to three decimal places





Recognise the per cent symbol and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal



Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

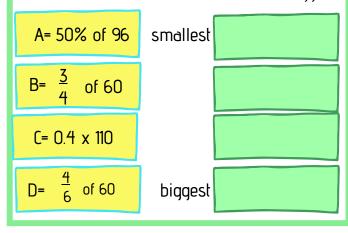
What is the value of the underlined digit? Circle the correct answer



8 tenths	8 tens
8 thousandths	8 ones
8 millions	8 hundredths

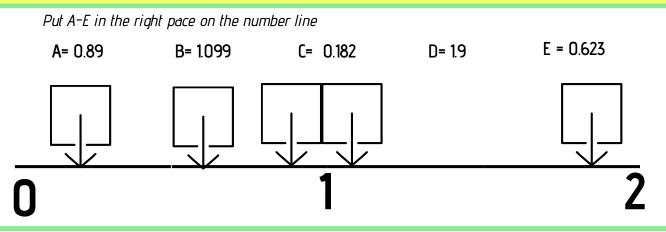
Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of 10 or 25

Put the amounts in order from smallest to biggest

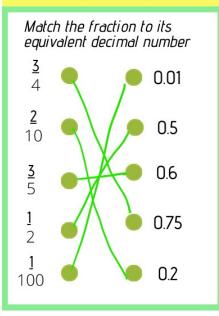


rear J Fractions (2)

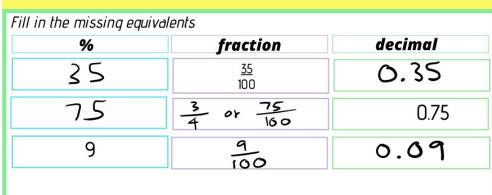
Read, write, order and compare numbers with up to three decimal places



#### Read and write decimal numbers as fractions



Recognise the per cent symbol and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

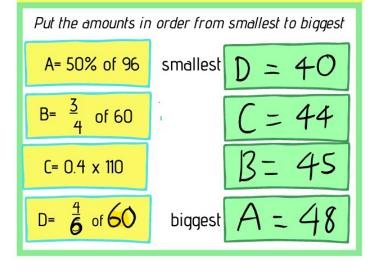


Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

What is the value of the underlined digit? Circle the correct answer



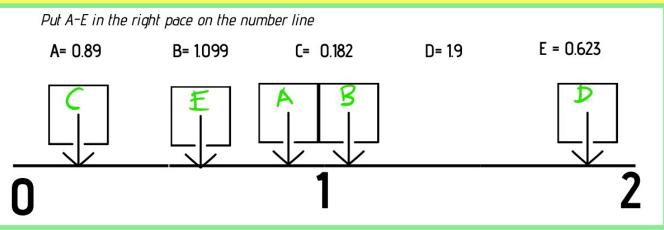
Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of 10 or 25



Year 5 Fractions (2) ANSWERS

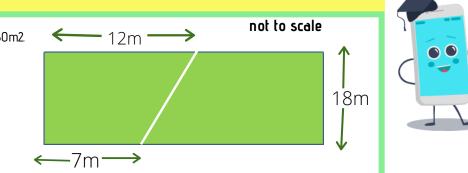


Read, write, order and compare numbers with up to three decimal places



### Use the properties of rectangles to deduce related facts and find missing lengths and angles

The area of this whole school field is 360m2. The field was split into two sections. Are both sections equal? Explain your reasoning.



Draw given angles, and measure them in degrees Identify: angles at a point and one whole turn; angles at a point on a straight line and a turn; other multiples of 90

Find the size of angles x & y



Identify 3D shapes, including cubes and other cuboids, from 2D representations

Year 5 Geometry

1 have one square face and four triangular faces. What 3D shape am 1?

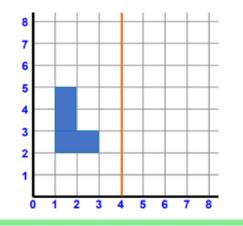


Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

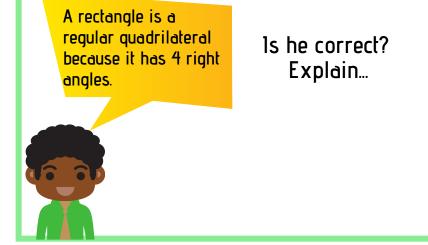
### Draw two new shapes by:

\*Translating the original shape two units right and 3 units up.

\*Reflecting the original shape across the mirror line



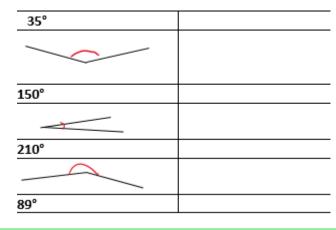
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles



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Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

Label each angle as either acute, obtuse and reflex



Use the properties of rectangles to deduce related facts and find missing lengths and angles

12m '

The area of this whole school field is 360m2. The field was split into two sections. Are both sections equal? Explain your reasoning. *If the area is 360m<sup>2</sup> the long side* 

then 13m & 8m which makes the right section bigger than the left section  $\leftarrow -7m$ 

Draw given angles, and measure them in degrees Identify: angles at a point and one whole turn; angles at a point on a straight line and a turn; other multiples of 90

Find the size of angles x & y angles on a straight line, in a triangle and in a right angle are clues

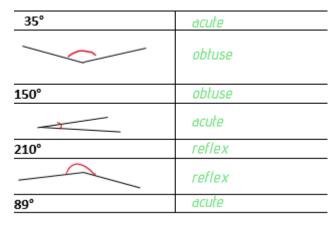


Year 5 Geometry ANSWERS

18m

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

Label each angle as either acute, obtuse and reflex



Identify 3D shapes, including cubes and other cuboids, from 2D representations

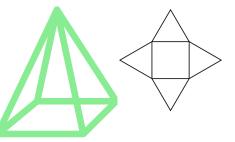
not to scale

× 8m

20m

3m

I have one square face and four triangular faces. What 3D shape am 1?



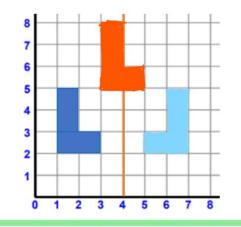
A SQUARE BASED PYRAMID

Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

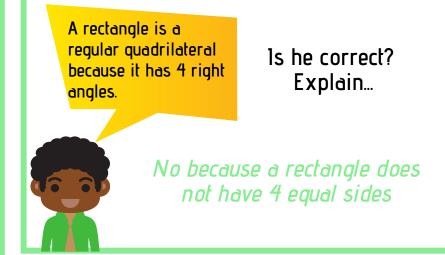
Draw two new shapes by:

\*Translating the original shape two units right and 3 units up.

\*Reflecting the original shape across the mirror line



Distinguish between regular and irregular polygons based on reasoning about equal sides and angles



Add and subtract whole numbers with more than 4 digits, including using formal written methods

A TikTok video received 8,539 likes in the first 24 hours and another 12,465 likes the following day.



a) How many likes does it have after 48 hours?

b) How many more likes does it need to get to 30,000 likes?

Add and subtract numbers mentally with increasingly large numbers

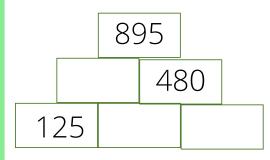
Navigate through the maze by calculating only in your head! You can go left, right, up, down or diagonally. Starting at 28, which number will you land on?

CRANDA							104
128	+38	- 22	+ 54	- 29	+10	+16	105
	+47	-19	+53	- 19	+12	+15	106

Near 5 Addition and Subtraction

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

a) Each two cells add to make the cell above. Complete the missing cells.



b) Fill in the missing digits to make this calculation correct

895



8

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

I earned 2990 points on my computer game on Friday. On Saturday, I earned 3800 points and on Sunday I earned 1095 points. In total I earned about 6000 points.

Is Gemma correct? Explain your answer

Add and subtract whole numbers with more than 4 digits, including using formal written methods

A TikTok video received 8,539 likes in the first 24 hours and another 12,465 likes the following day.



a) How many likes does it have after 48 hours?
21,004
b) How many more likes does it need to get to

30,000 likes? 8.996

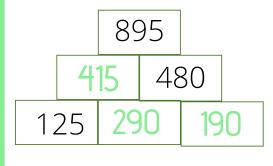
Add and subtract numbers mentally with increasingly large numbers

Navigate through the maze by calculating only in your head! You can go left, right, up, down or diagonally. Starting at 28, which number will you land on? FINISH + 32 25 + 55 - 39 +18+14104 - 54 - 22 +1638 - 29 +10105 28 + 47 -19 +53- 19 +12 +15106

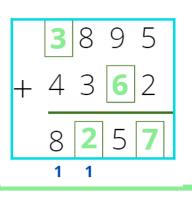
## **Near 5 Addition and Subtraction ANSWERS**

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

a) Each two cells add to make the cell above. Complete the missing cells.



b) Fill in the missing digits to make this calculation correct



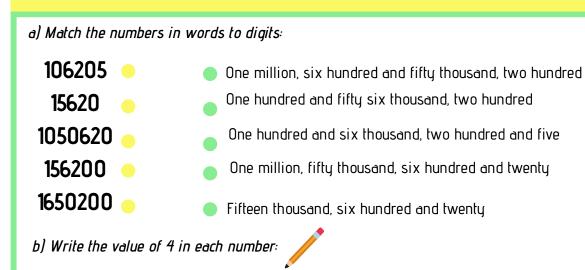
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

I earned 2990 points on my computer game on Friday. On Saturday, I earned 3800 points and on Sunday I earned 1095 points. In total I earned about 6000 points.

Is Gemma correct? Explain your answer

No because, if you round Friday to 3000 and Saturday to 4000 its already bigger than 6000

## Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit



204578

315049

24575

## Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000

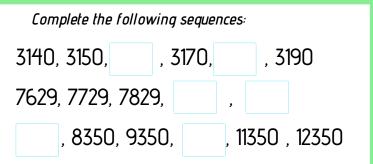
413299

Round each number to the nearest 10, 1,000, or 100,000

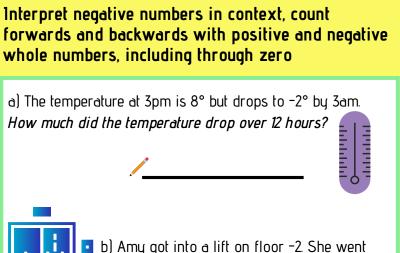
	10	1000	100,000	
203458			1	
196453				
249608				

Vear 5 Place Value

## Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000







up 5 floors. *What floor did she get out at?* 

Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.



What year has been written in Roman Numerals?

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**MDCCCXLIX** 

 Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
 Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

 a) Match the numbers in words to digits:
 Complete the following sequences:

106205<br/>15620<br/>1050620<br/>156200One million, six hundred and fifty thousand, two hundred<br/>One hundred and fifty six thousand, two hundred<br/>One hundred and six thousand, two hundred and five<br/>One million, fifty thousand, six hundred and twenty156200One million, fifty thousand, six hundred and twenty1650200Fifteen thousand, six hundred and twentyb) Write the value of 4 in each number:<br/>204578245752045781000413299160031504940245754000

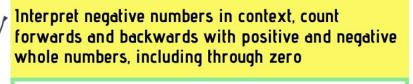
Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000

Round each number to the nearest 10, 1,000, or 100,000

	10	1000	100,000
203458	203,460	203,000	200,000
196453	196,450	196,000	200,000
249608	249,610	250,000	260/000

Year 5 Place Value ANSWERS

3140, 3150, <mark>3160</mark>, 3170, 3180, 3190 7629, 7729, 7829, 7929, 8029 7350, 8350, 9350, 10350, 11350, 12350



a) The temperature at 3pm is 8° but drops to -2° by 3am. *How much did the temperature drop over 12 hours?* 



b) Amy got into a lift on floor -2. She went up 5 floors. *What floor did she get out at?* 

Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

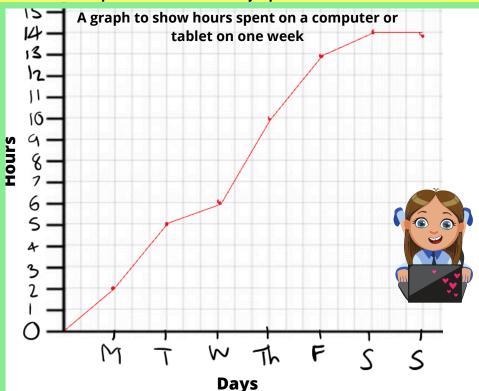
1849

What year has been written in Roman Numerals?

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MDCCCXL1X

### Solve comparison, sum and difference problems using information presented in a line graph



At the end of each day, the time spent on a computer is put on a graph and added up over a week. *Can you answer these questions?* 

- How many more hours were spent on the computer on Tuesday than Monday?
- Which two days were only 1 hour spent on the computer?
- On which day was no time spent on the computer?
- How much time was spent on the computer Monday Friday?



### Complete, read and interpret information in tables, including timetables

Some of the times on this bus timetable have been rubbed out. The buses run very regularly and stick to the same schedule every time. Can you use the clues to fill out the missing times?



Stop	9:10	10:05	11:00	11:55
Α	9:35	10:30	11:25	
В	9:46		11:36	12:31
С		10:49		12:39
D		10:58		
Е	10:20		12:10	13:05
F		11:28	12:23	
G	10:45			13:30

### Solve comparison, sum and difference problems using information presented in a line graph 15 A graph to show hours spent on a computer or 14 tablet on one week 13 12 11 16 a Hours 6 M F Days

At the end of each day, the time spent on a computer is put on a graph and added up over a week. *Can you answer these questions?* 

How many more hours were spent on the computer on Tuesday than Monday?

- Which two days were only 1 hour spent on the computer?
  Wednesday and Saturday
- On which day was no time spent on the computer?

Now much time was spent on the computer Monday - Friday?

hows

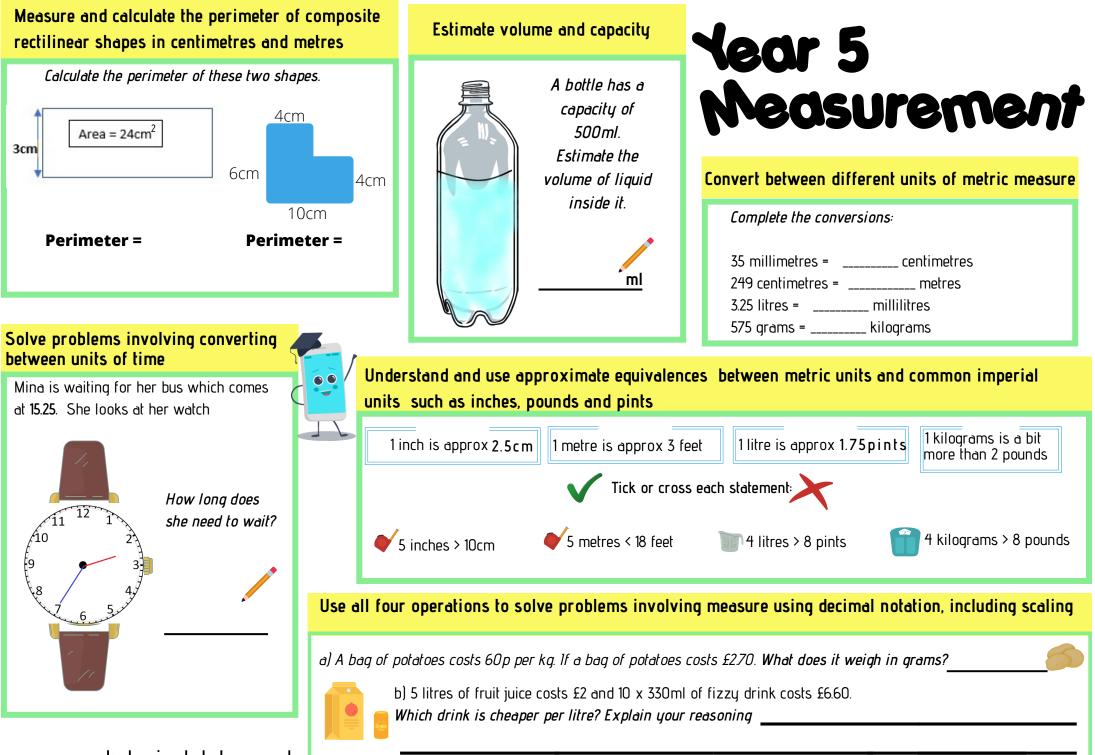
# Year 5 Statistics ANSI/ERS

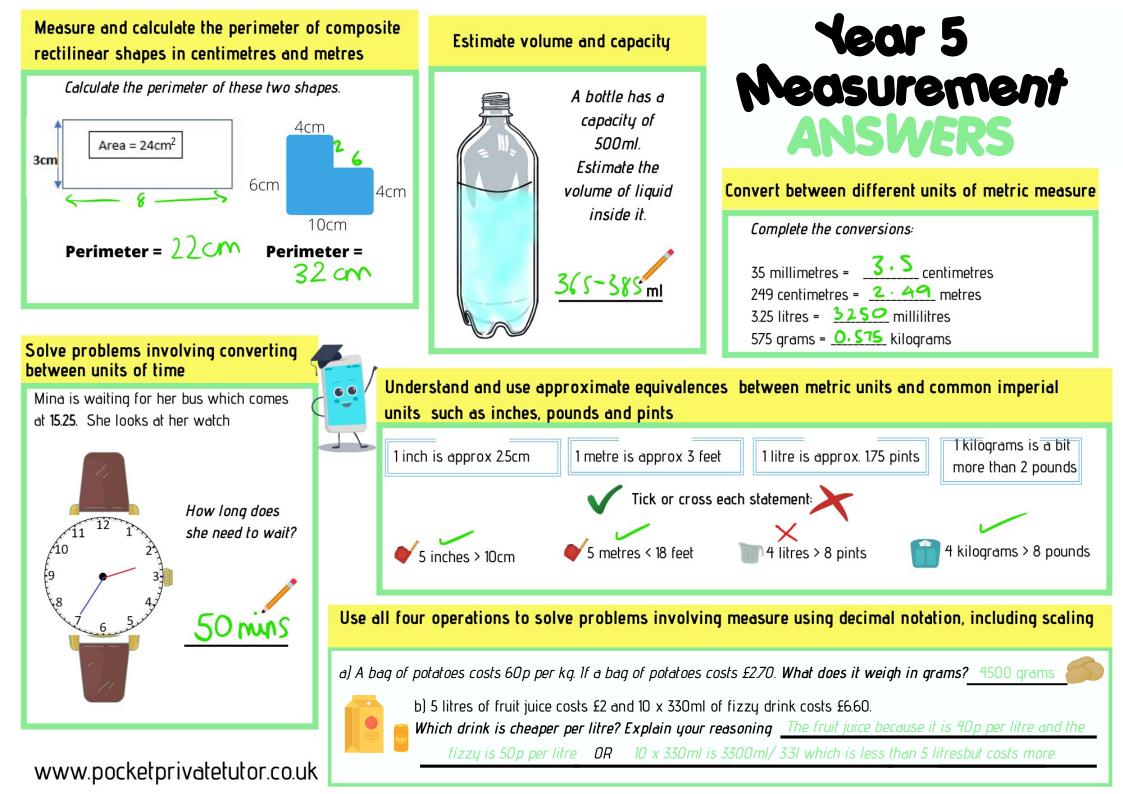
### Complete, read and interpret information in tables, including timetables

Some of the times on this bus timetable have been rubbed out. The buses run very regularly and stick to the same schedule every time. Can you use the clues to fill out the missing times?

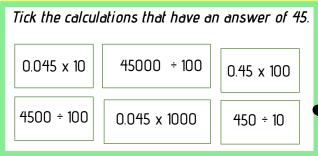


Stop	9:10	10:05	11:00	11:55	1
Stop					
Α	9:35	10:30	11:25	12:20	
В	9:46	10:41	11:36	12:31	
С	9:54	10:49	11:44	12:39	
D	10:03	10:58	11:53	12:48	
E	10:20	11:15	12:10	13:05	
F	10:33	11:28	12:23	12:18	
G	10:45	11:40	12:35	13:30	





### Multiply and divide whole numbers and those involving decimals by 10, 100 & 1000



### Multiply and divide numbers mentally drawing upon known facts

- If 3 x 5 = 15 what is 300 x 0.5?
- If 45 ÷ 9 = 5 then what is 4500 ÷ 9?

oly numbers up to 4 using a formal written method
3265
X 28

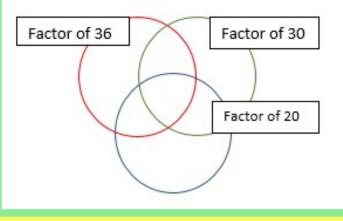
## Divide numbers up to 4 digits using the formal written method of short division

Rita had raised £2485 to buy new books for her local children's home. Each book cost £6. *How many books can she buy?* 



Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

Place the numbers 1-12 into the Venn diagram



### Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

2 blue coins can be exchanged for 3 purple coins. Lucy had 24 blue coins, *how many purple coins could she swap them for*?

Theo had 45 purple coins, *how many blue coins could he swap them for?* 

# Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Last year, my age was a prime number but next year it isn't. When 1 am twice the age 1 am now, my age will be a cube

> number. It has been 7 years since my age was a square number. How old am 1?

## Establish whether a number up to 100 is prime and recall prime numbers up to 19

Decide whether each number is a prime number



Know and use the vocabulary of prime numbers, prime factors and composite numbers

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

Which symbol belongs in between each calculation? **< = >** 

2356 + 1496

642 x 6

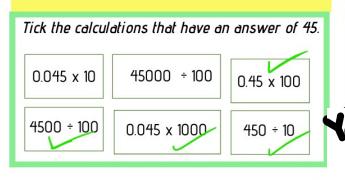
8130 - 7986

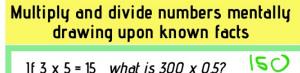
1740 ÷ 12

Write the prime factors of 96

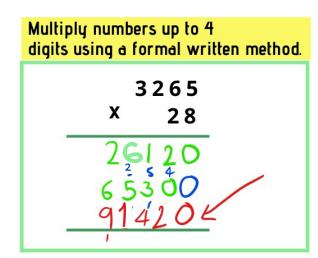
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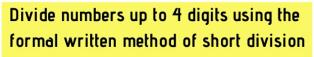
### Multiply and divide whole numbers and those involving decimals by 10, 100 & 1000





If 45 ÷ 9 = 5 then what is 4500 ÷ 9? 500



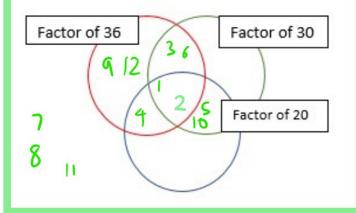




& division ANSIVERS

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

Place the numbers 1-12 into the Venn diagram



8130 - 7986

1740 ÷ 12

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

2 blue coins can be exchanged for 3 purple coins. Lucy had 24 blue coins, *how many purple coins could she swap them for*? 36 purple coins Theo had 45 purple coins, *how many blue coins could he swap them for*? 30 blue coins

# Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

Last year, my age was a prime number but next year it isn't. When 1 am twice the age 1 am now, my age will be a cube

> number. It has been 7 years since my age was a square number. How old am 1? 32 years of A

## Establish whether a number up to 100 is prime and recall prime numbers up to 19

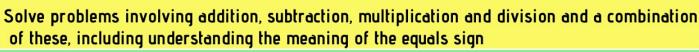
Decide whether each number is a prime number

Prime Numbers	True	False
2	~	
17	~	
21		
51		

Know and use the vocabulary of prime numbers, prime factors and composite numbers

Write the prime factors of 96  $2^5 \times 3$ 

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Which symbol belongs in between each calculation? < = 🗲

642 x 6

2356 + 1496