



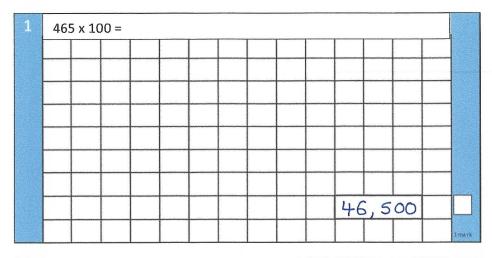
Mathematics 10-4-10 Expected Standard

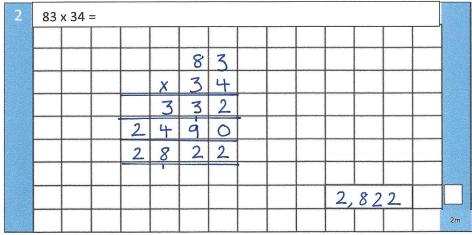
Answer Booklet

Easter 2016







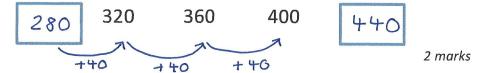


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DAY 1 – Reasoning Questions

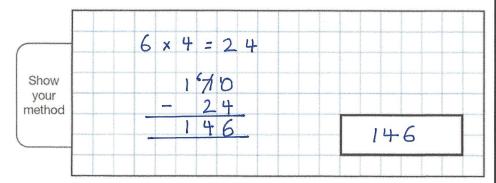
1. The numbers in this sequence increase by the same amount each time. Write the two missing numbers.



- 2. Circle the number that is closest to 400.
 - 423 4001 (382) 444 143

1 mark

3. A box contains 170 pens. 6 children each take 4 pens. How many pens are left in the box?



2 marks

4. Write the missing numbers in the multiplication grid.

X	9	4	7
5	45	20	35
6	54	24	42
3	27	12	21

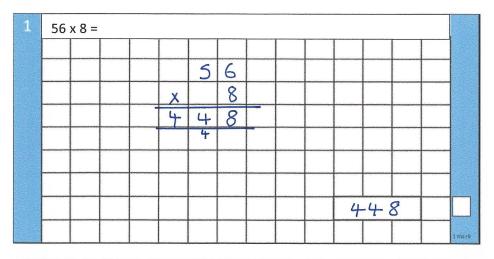
2 marks

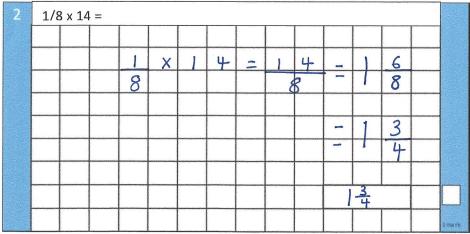
5. Here is a diagram for sorting numbers. Write **one number** in each box. One is done for you.

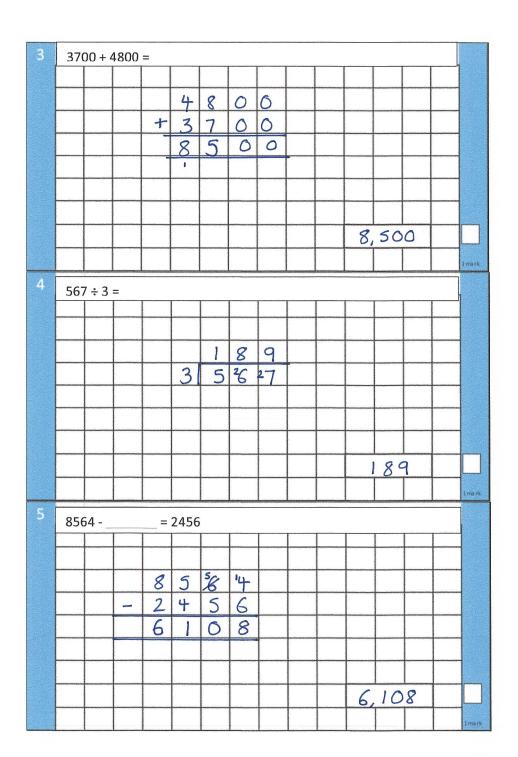
	Multiple of 3	Not a multiple of 3
Odd number	15, 21, 27, 33 etc.	1,5,7,11 etc
Not an odd number	6, 12, 18, 24 etc.	2, 4, 8, 10 etc.

2 marks











DAY 2 – Reasoning Questions

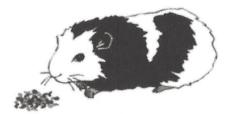
1. Max jumped 2.25 metres on his second try at the long jump. This was 75 centimetres longer than on his first try. How far in metres did he jump on his first try?

$$2 \cdot 25 - 0.75 =$$

1.5m (1 mark)

2.

A packet contains 1.5 kilograms of guinea pig food. Remi feeds her guinea pig 30 grams of food each day.



How many days does the packet of food last?

50 days (1 mark)

3. A bottle holds 1 litre of lemonade. Rachel has 5 glasses and fills each glass with 150 millilitres of the lemonade. How much lemonade is left in the bottle?

250 ml (1 mark)

1L = 1000 mL

1000 - 750 = 250ml

4.

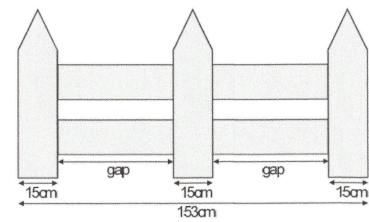
This table shows the weight of some fruits and vegetables. Complete the table.

	grams	kilograms
potatoes	3500	3.5
apples	1200	1.2
grapes	250	0.25

(1 mark)

5.

This fence has three posts, equally spaced.



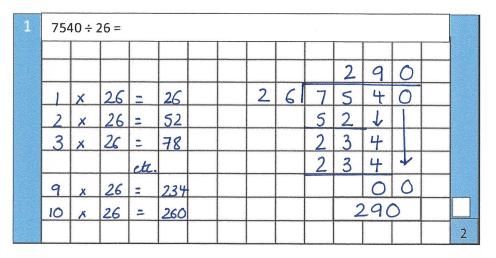
Each post is 15 centimetres wide.

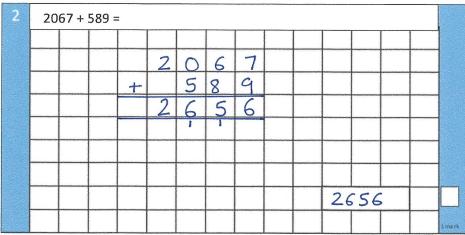
The length of the fence is 153 centimetres.

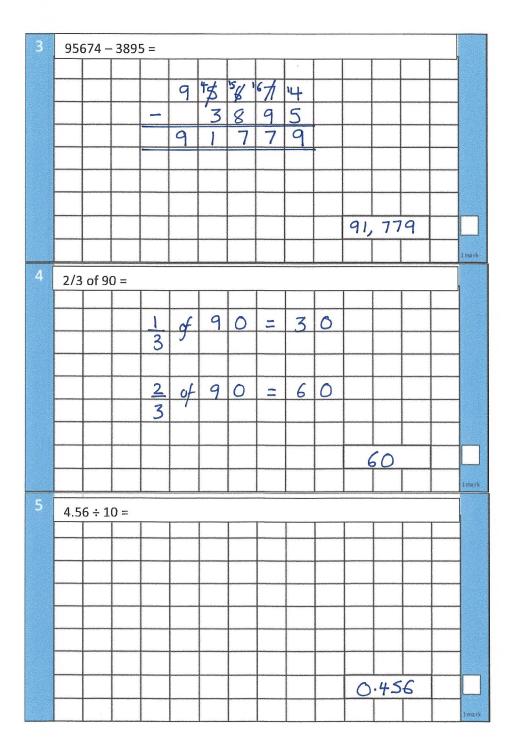
Calculate the length of one gap between two posts.

______(1 m







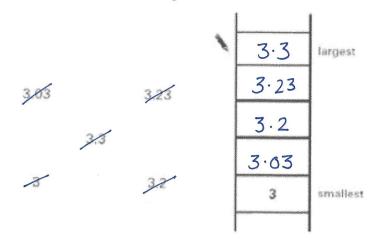




DAY 3 – Reasoning Questions

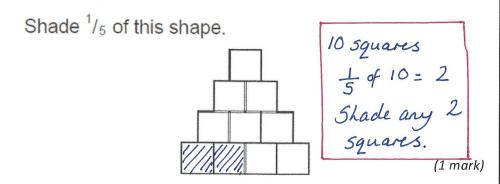
1.

Write these numbers in order. One has been done for you.



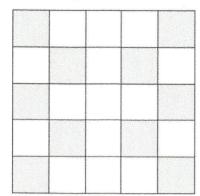
(1 mark)

2.



3.

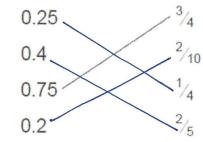
Here is a pattern on a grid.



What percentage of the grid is shaded?

4.

Match each decimal number to its equivalent fraction. One has been done for you.



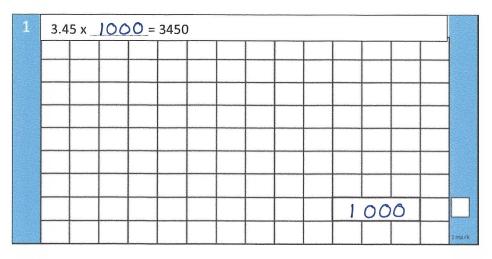
(1 mark)

5. Write in the missing numbers.

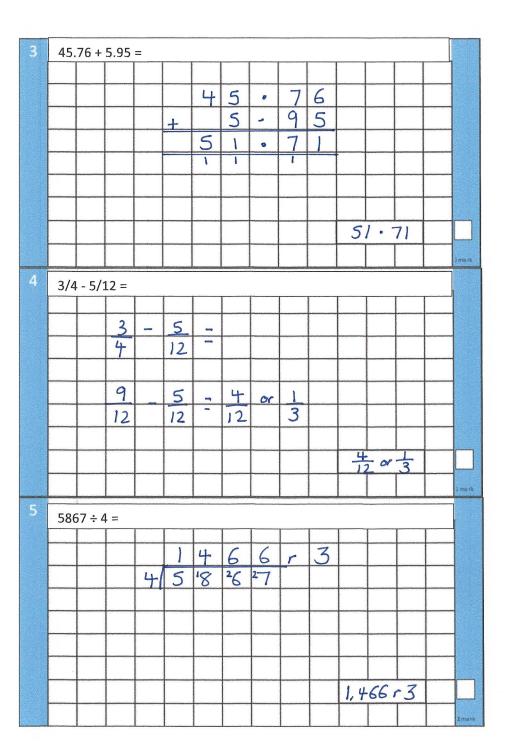
(2 marks)



DAY 4 Arithmetic Questions



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	3	×	7	-	2	1					
	4	X	6	=	2	4					
	2	4		2	1	=	3				
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DAY 4 – Reasoning Questions

1.

Emily has 6 cubes.

She sticks them together to make this model.



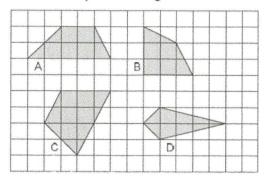
She paints the sides of the model grey all the way round. She leaves the top and the bottom of the model white.

How many of the cubes in the model have exactly two faces painted grey?

_____(1 mark)

2.

Here are some shapes on a grid.

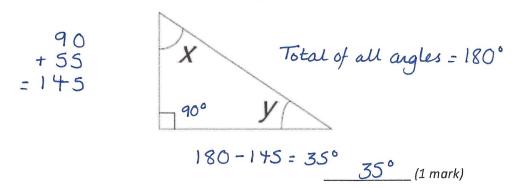


Write the letter of each shape that has one pair of parallel sides.

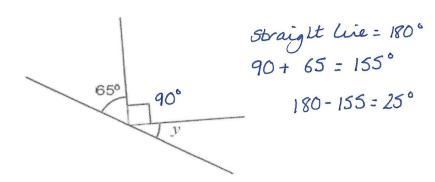
A and C (1 mark)

3.

Look at the triangle. Angle x is fifty-five degrees. Calculate the size of angle y.



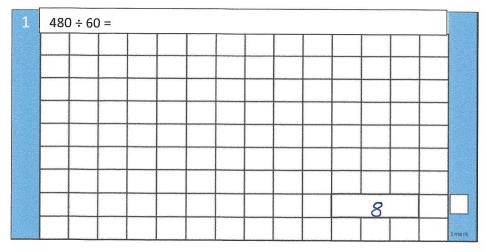
4.

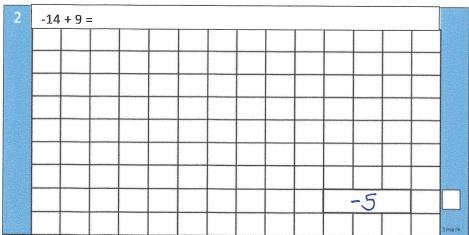


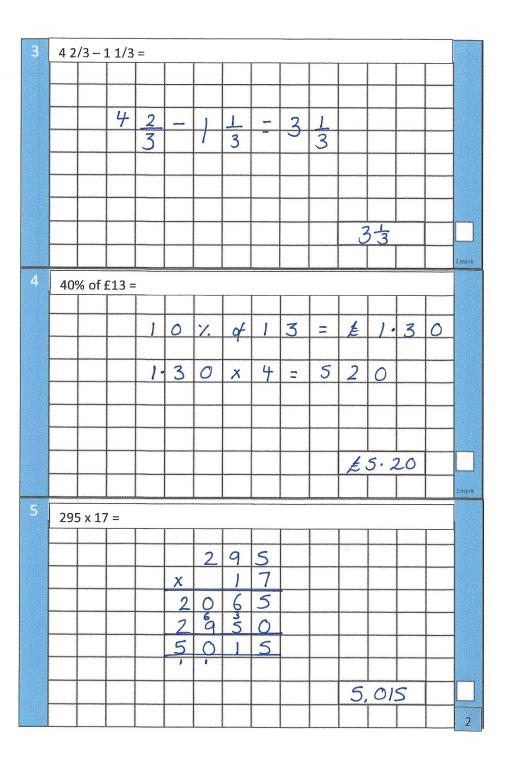
Not to scale

Calculate the size of angle y in this diagram. Do not use a protractor (angle measurer).











DAY 5 – Reasoning Questions

1.

In class 6T there are 3 girls to every 2 boys. There are 21 girls in the class. How many boys are there?

$$\begin{array}{c|c}
C & B \\
\hline
3 & 2 \\
\times 7 & \times 7 \\
21 & 14
\end{array}$$

2.

3.

A cupcake recipe uses 2 eggs for every 250g of flour. How many eggs are needed for 1kg of flour?

(1 mark)

Use the rule below to fill in the empty boxes.

Double a number and add 3

$$17 \times 2 = 34$$

 $34 + 3 = 37$

(1 mark)



A recipe for roasting a chicken states that you must roast it for 20 minutes per 500g plus 20 minutes extra. Dan is roasting a chicken which weighs 1.5 kg. How long will he need to roast it

80 mins or 1 hr 20 (1 mark)

5.

and O each stand for a different number.

$$= 34$$

$$\Box + \Box = O + O + \Box$$

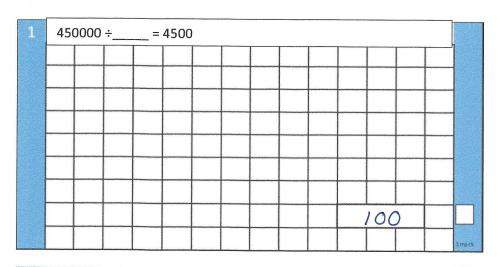
What is the value of O?

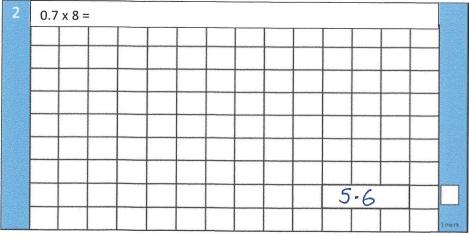
$$3++3+=0+0+34$$

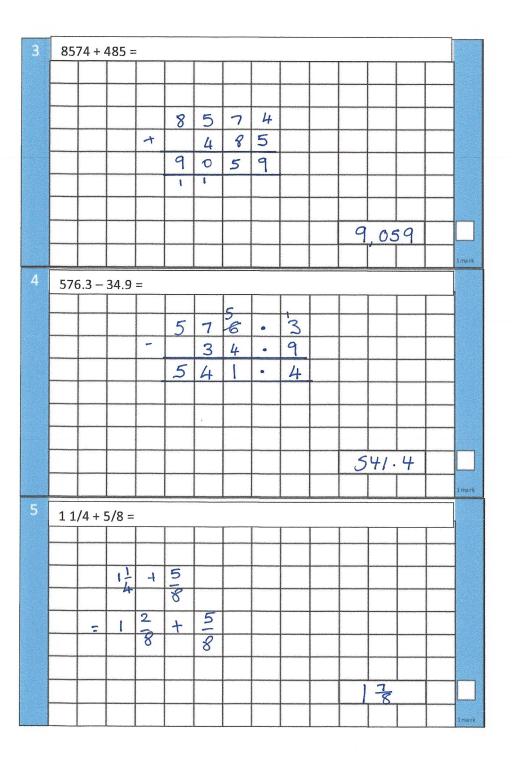
(1 mark)



DAY 6 Arithmetic Questions



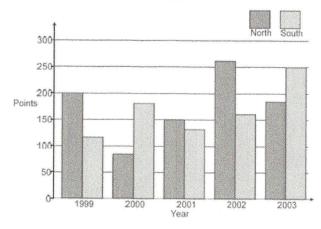






DAY 6 – Reasoning Questions

A school has a quiz each year. There are two teams. Here are their results.



In which year did North beat South by 100 points? In which year did South beat North by the greatest amount?

2000 (1 mark)

2000 (1 mark)

2. Brooklyn runs the 100m 5 times. These are his times in seconds.

13.4 14 13.6 14.7 14.3

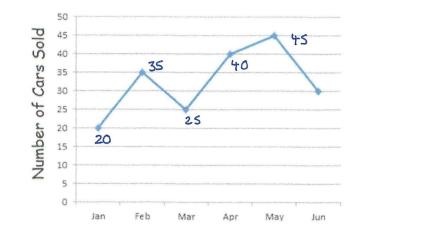
What is his mean (average) time?

14 (1 mark)

3. The total of 4 numbers is 80. What is their mean?

______(1 mark)

4.

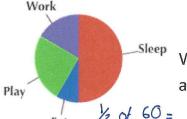


How many more cars were sold in April than in March?

_____(1 mark)

5. This pie chart looks at activities completed by 60 people on Saturday morning.

What fraction of the people played?



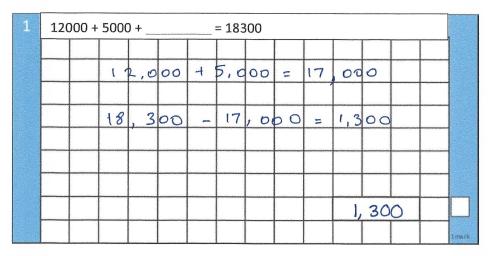
What is the difference between the amount that sleep and play?

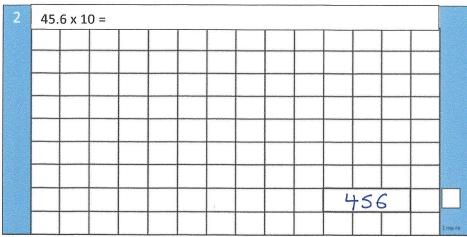
$$\frac{1}{2}$$
 of $60 = 30$ $30 - 15 = 15$

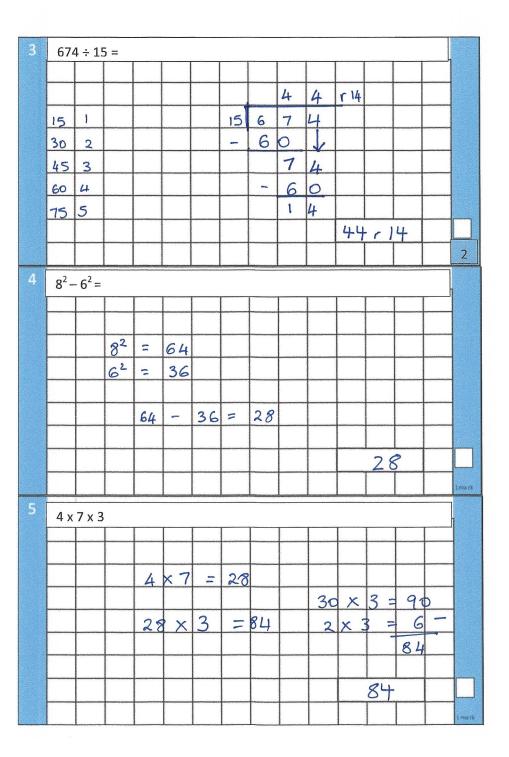
______(1 mark)

(1 mark)









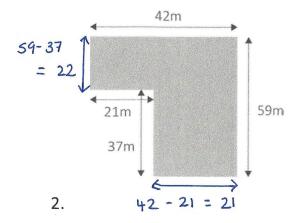


DAY 7 – Reasoning Questions

1.

Find the perimeter of the shape below.

202cm (1 mark)



A film starts at 6:45pm. It lasts 2 hours and 35 minutes.

What time will the film finish?

9:20pm (1 mark)

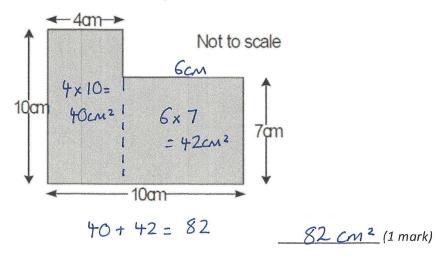
3.

Buses come once an hour at a twenty past the hour. Sophie arrives at the bus stop at 9:40am. How long should she have to wait for the next bus?

40 mins (1 mark)

4.

What is the area of this shape?



5.

A square has four sides. One of its sides measures 67mm. Work out its perimeter in cm.

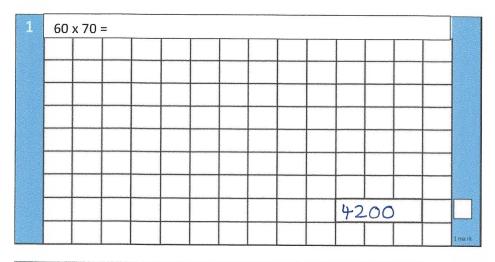
$$67mm = 6.7cm$$

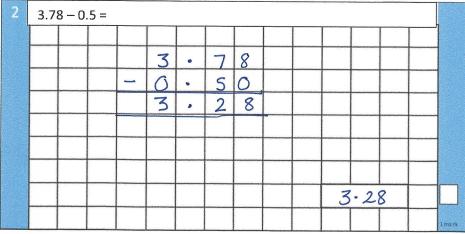
 $6.7 \times 4 = 26.8$

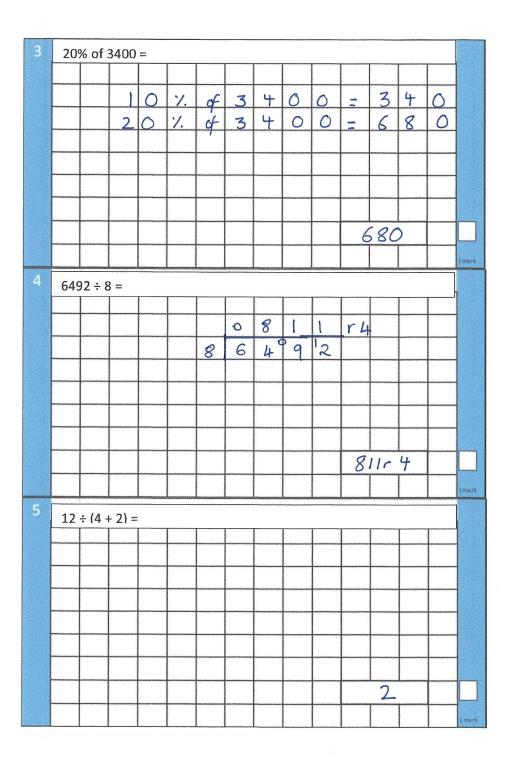
Perimeter =
$$26 \cdot 8$$
 cm

26.8cm (1 mark)











DAY 8 – Reasoning Questions

1.

Toby has $\frac{3}{4}$ of £160 and Paul has $\frac{3}{8}$ of £240. How much more

money does Toby have?

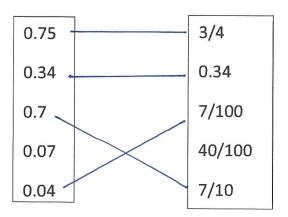
ney does Toby have?
$$\frac{1}{8}$$
 of 240 = $\frac{1}{2}$ 30 $\frac{1}{8}$ of $\frac{1}$

Circle all the improper fractions that are equivalent to 4.

$$\frac{12}{6}$$
 $\frac{48}{12}$ $\frac{30}{8}$ $\frac{16}{4}$ $\frac{4}{9}$

(1 mark)

3. Draw lines to join the decimal with the equivalent fraction.



(1 mark)

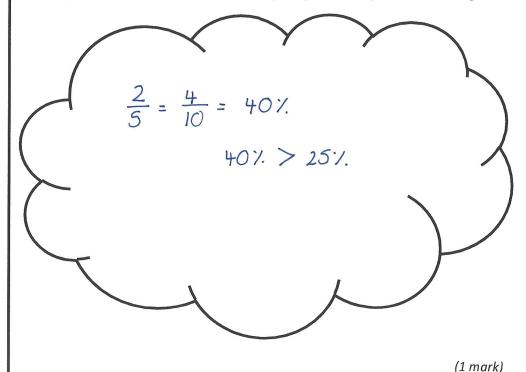
4.

Use the symbol <> = to make this statement true.

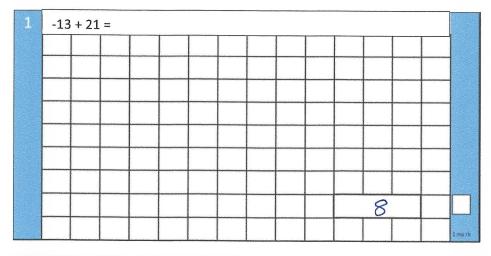
25% of £300 15% of £400

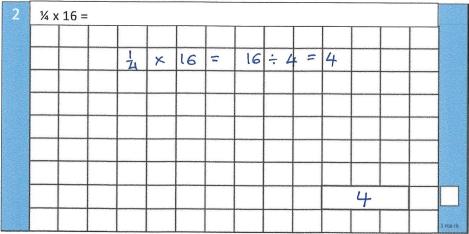
5.

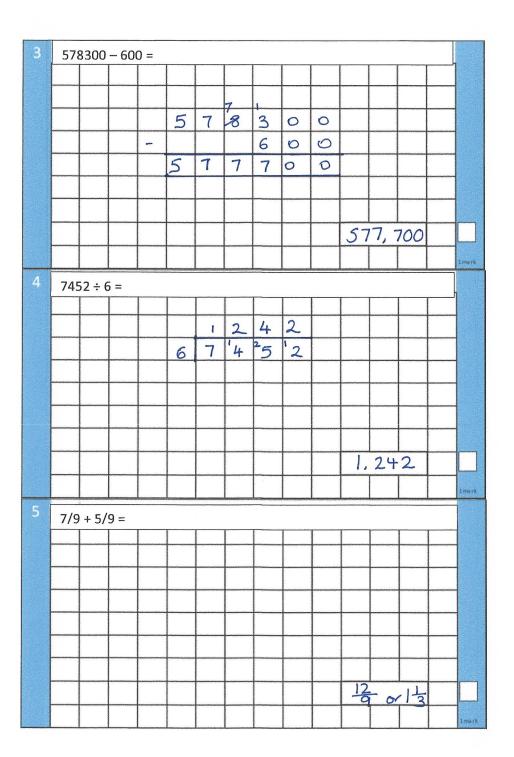
Bobby and Sue are sharing a cake. Bobby wants to eat 25% of the cake. Sue wants to eat 2/5 of the cake. Sue thinks she will be eating the same amount as Bobby. Explain why Sue is wrong.













DAY 9 – Reasoning Questions

1.

Circle all the multiples of 4 listed below:



13 98



1800

(1 mark)

2.

List all the factors of 24.

1, 2, 3, 4, 6, 8, 12, 24

(1 mark)

3.

Tina is thinking of 2 square numbers. The difference between them is 11. When she adds them together the total is 61. What two square numbers is Tina thinking of?

25, 36 (1 mark)

4.

Complete the prime numbers:

2

3

5

7

11

13

19

(1 mark)

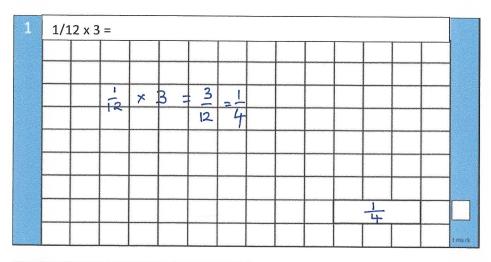
5.

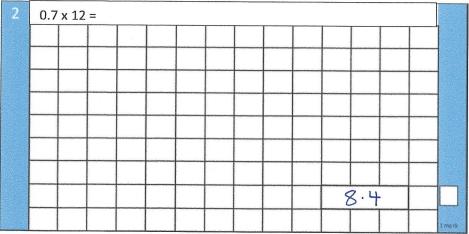
What is the lowest common multiple of 9 and 12?

<u> 36 (1 mark)</u>



DAY 10 Arithmetic Questions







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				10	%		is	26							
										-		35	6 i	S	
				20	%		is	5	2						
												78	+ (2	3	
				30	%		is	7	8			=	91		
				5	%		is	13)			91	г		
															lmark
4	753	342 +	3864	4 =			,						_		
						7	5	2	1	0					
					4	7	5	3	4	2					
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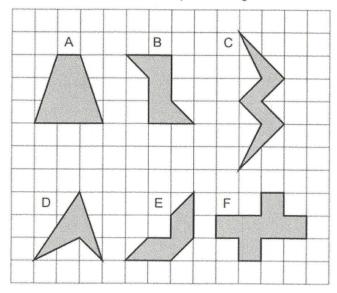
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DAY 10 – Reasoning Questions

1.

Here are some shaded shapes on a grid.



Which three shapes have reflective symmetry?

A, C, E (1 mark)

2. Write these numbers in descending order.

176,490 167,940

174,609

169,470

10,740

176,490 174,609 169,470 167,940 10,740

3. Lloyd works for 165 days of the year. How long is this in weeks and days?

23 weeks and 4 days 23 r 4 (1 mark)

4. The table shows the temperature in different cities.

Temperature ⁰ C
7
-3
-9
0
-4
8
11

What is the difference in temperature between London and Cardiff?

________(1 mark)

The temperature in Birmingham increases by 14°C. What is the temperature in Birmingham now?

______(1 mark)

5. Polly has 5 bags of sweets. In each bag there are 21 sweets. She wants to share them equally between 6 people. How many sweets does each person get?

17 (1 mark)