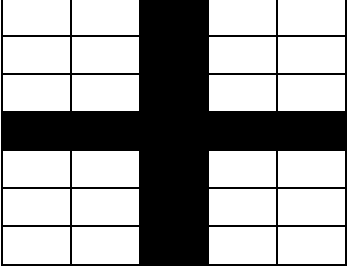






**PAGE 1**  
**ANSWER ALL QUESTIONS IN THE SPACES PROVIDED, SHOWING ANY**  
**NECESSARY WORKINGS**

<b>2014 + 998 =</b>	<b>2014 – 998 =</b>	<b>What is 2014 x 40?</b>	<b>DO NOT WRITE IN THIS BOX</b>  <b>1</b> <b>1</b> <b>1</b>
<b>Use your previous answer to write down 2014 x 4</b>	<b>Use these last two answers to write down 2014 x 44</b>	<b>Use your previous answer to write down 20.14 x 4.4</b>	<b>1</b> <b>1</b> <b>1</b>
<b>20.14 + 0.08 =</b>	<b>20.14 + 0.8 =</b>	<b>20.14 + 8 =</b>	<b>1</b> <b>1</b> <b>1</b>
<b>Given that 68 x 41 = 2788</b>  <b>What is 2788 ÷ 68 ?</b>   <b>What is 278.8 ÷ 68?</b>   <b>What is 0.2788 ÷ 410?</b>	<b>What is 400 x 13 ?</b>   <b>What is 400 x 1.3?</b>   <b>What is 400 x 0.13?</b>	<b>What is 9000 ÷ 100?</b>   <b>What is 9000 ÷ 300?</b>   <b>What is 9000 ÷ 600?</b>	<b>1</b> <b>1</b> <b>1</b>  <b>1</b> <b>1</b> <b>1</b>  <b>1</b> <b>1</b> <b>1</b>

<p>Which of these three is the largest and which is the smallest?</p> <p>66%   0.607   <math>\frac{2}{3}</math></p> <p>Largest =</p> <p>Smallest =</p>	<p>What is 10% of £120?</p> <p>What is 5% of £120?</p> <p>What is <math>2\frac{1}{2}\%</math> of £120?</p> <p>Use your answers to find <math>17\frac{1}{2}\%</math> of £120</p>	<p>Find one sixth of 240</p> <p>Use your answer to find five sixths of 240</p>	<p>DO NOT WRITE IN THIS BOX</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
<p>Add together</p> <p>20% of 40</p> <p><math>\frac{2}{5}</math> of 20</p> <p>and <math>\frac{2}{3}</math> of 21</p>	<p>Sarah is 24 years old.</p> <p>Peter is half as old as Sarah.</p> <p>Mike is <math>\frac{2}{3}</math> of Peter's age.</p> <p>What is their total age?</p>	<p>Write down a decimal between 81% and 84%</p> <p>Write down a fraction between 70% and 80%</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>
<p>What are the next two numbers in these sequences</p> <p>1, 2, 4, 8, 16, ...</p> <p>.....and.....</p> <p>1, 8, 27, 64, ...</p> <p>.....and.....</p>	<p>Put these decimals in order, starting with the largest.</p> <p>0.302, 0.032, 0.32</p>	 <p>What fraction of this flag is shaded?</p> <p>How many more rectangles need to be shaded to fill <math>\frac{3}{5}</math> of the flag?</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>

<p>Work out</p> $\frac{2}{5} + \frac{2}{15}$	<p>Work out</p> $\frac{3}{7} - \frac{3}{5}$	<p>Add together the following, giving your answer as a DECIMAL</p> $\frac{1}{5}, 27\% \text{ and } 0.708$	<p>DO NOT WRITE IN THIS BOX</p> <p>1 1  1 1  1 1 1</p>
<p>What is the biggest number that divides exactly into 63 , 84 and 105 ?</p>	<p>What is the smallest number that 3, 8, and 21 all divide into?</p>	<p>Find two numbers that have a difference of 6 and add up to 14</p> <p>.....and.....</p>	<p>1 1 1</p>
<p>What is 0.4 written as a fraction?</p> <p>What is 0.04 written as a fraction?</p> <p>What is 0.404 written as a fraction?</p>	<p>What is <math>\frac{1}{8}</math> written as a decimal?</p> <p>What is <math>\frac{1}{80}</math> written as a decimal?</p> <p>What is <math>\frac{3}{80}</math> written as a decimal?</p>	<p>Name the shapes below</p>  	<p>1 1 1  1 1 1  1 1</p>

A survey is carried out to find out how many pets each student in year 6 has. The data is recorded in the table below.

DO NOT WRITE IN THIS BOX

Number of pets	Number of times	Total number of pets
0	25	0 x 25 =
1	31	
2	20	
3	8	
4	4	
5	2	

1  
1  
1  
1

Complete the end column in the table

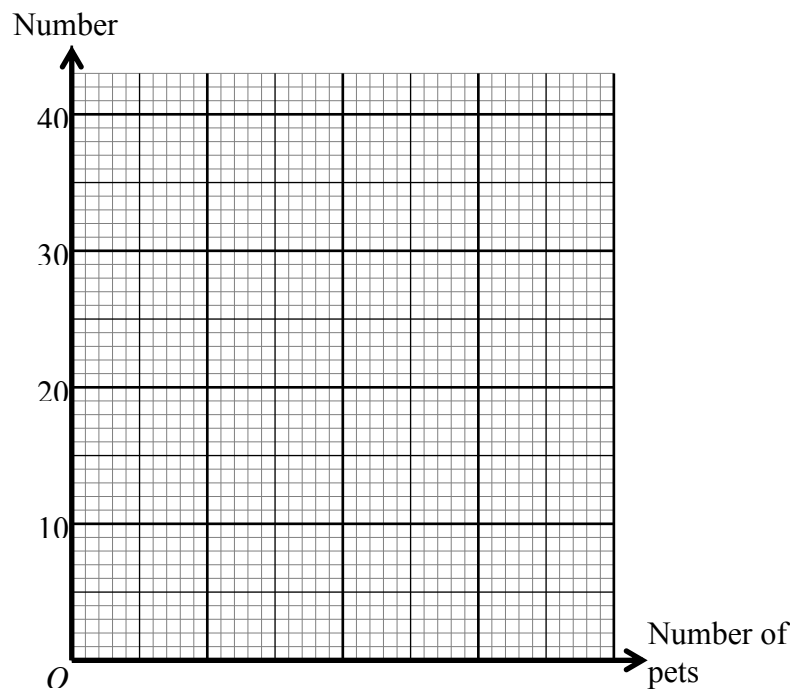
How many students are there in year 6?.....

1

How many pets are there all together?.....

1

Using the first two columns of the table, draw a bar chart to represent these results.

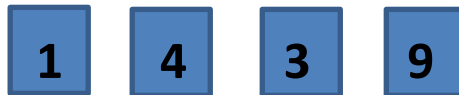


1  
1  
1

What are the missing numbers in the sums shown below?

$36 - \dots = 19$	$\dots - 47 = 24$	$280 \div \dots = 14$	DO NOT WRITE IN THIS BOX <b>3</b>
$(7 + \dots) \times 5 = 65$	$\dots \times \dots = 49$	$\frac{(34 - \dots)}{3} = 8$	<b>3</b>
$6 \times \dots - 2 = 40$	$\dots \div 8 = 14$	$\frac{(\dots + 4)}{7} = 3$	<b>3</b>

Here are some number cards



You can use each card once to make the number 4139 like this



What is the biggest 4 digit number you can make with the four cards?.....

**1**

What is the smallest 4 digit number you can make with the four cards?.....

**1**

What is the biggest even number you can make with three of the cards?  
.....

**1**

Use some of the four number cards to make numbers as close as possible to the numbers given below

50  $\longrightarrow$ 

--	--

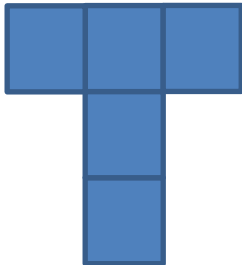
400  $\longrightarrow$ 

--	--	--

**1**

**1**

The diagram below is a scale drawing of a T shaped path of area  $45\text{m}^2$



DO NOT WRITE IN THIS BOX

What is the area of each individual square?

1

.....

What is the length of each side of each individual square?

1

.....

What is the perimeter of the path?

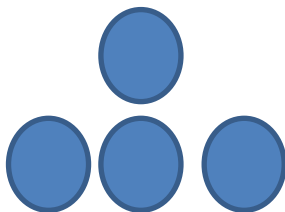
1

.....

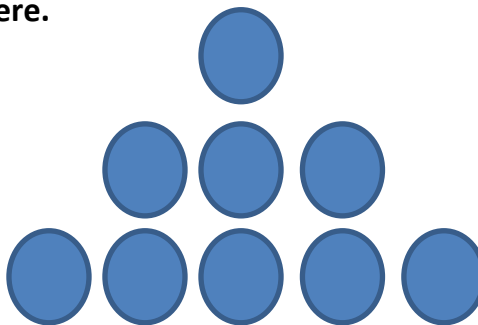
A pattern is made using balls as shown here.



Pattern 1



Pattern 2



Pattern 3

Copy and complete the table below.

1

Pattern	1	2	3	4	5
Number of Balls	1	4			

1

How many balls are there in the 10<sup>th</sup> pattern?

1

.....

How many balls are there in the 100<sup>th</sup> pattern?

1

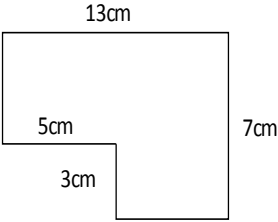
.....

Which pattern has 121 balls?

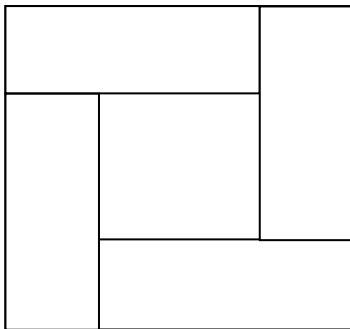
1

.....

1

<p>Which of these is the smallest fraction? Circle your answer.</p> $\frac{1}{4} \quad \frac{1}{3} \quad \frac{5}{24} \quad \frac{4}{15}$	DO NOT WRITE IN THIS BOX  <b>1</b>
<p>Find the area of the following shape:</p> 	<b>1</b>
<p>What is the 70<sup>th</sup> symbol in this endless string of symbols</p> $* \% \$ \pounds * \% \$ \pounds * \% \$ \pounds \dots$	<b>1</b>
<p>In the number 67379, what is the difference between the values of the two 7s?</p>	<b>1</b>
<p>Daisy travels on a National Express coach. It goes at an average speed of 80km/h for 45 minutes. How far does Daisy travel?</p>	<b>1</b>



<p>If a two pence coin is tossed two times, the side facing up noted (heads or tails), how many possible outcomes are there?</p>	<p>DO NOT WRITE IN THIS BOX <b>1</b></p>
<p>In the diagram below, a square of side 13cm is divided into four identical rectangles and a square of side 9cm.</p> <div style="text-align: center;">  </div> <p><i>(Diagram not to scale)</i></p> <p>What are the side lengths of the rectangles</p>	<p><b>1</b></p>
<p>Half the pieces of chalk in a box were white, the rest were coloured. A third of the coloured ones were blue, a quarter of the rest were red and the others were yellow. If there are 6 yellow ones, how many pieces of chalk were there altogether?</p>	<p><b>1</b></p>
<p>What is the sum of all the odd numbers less than 100?</p>	<p><b>1</b></p>
<p>A kitchen clock gains 1 minute every two hours. If I put the clock to the correct time right at 9am on Saturday, what time will it show when the right time is 5pm the following Monday?</p>	<p><b>1</b></p>

**END OF EXAMINATION**