



ST NINIAN'S HIGH SCHOOL,  
KIRKINTILLOCH  
BGE - MATHEMATICS

L2/P1

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

<ul style="list-style-type: none"><li>• Answer ALL questions in the space provided.</li><li>• Full marks will only be awarded where appropriate working and correct units are shown.</li></ul>	Significant Aspects of Learning (SAL)	Questions	Mark	
	Number	1 to 6	/15	
	Measure	7 to 8	/ 3	
	Shape	9 to 16	/30	
	Info Handling			
	Problem Solving	17 to 18	/4	
		<b>Total</b>	<b>/52</b>	<b>%</b>

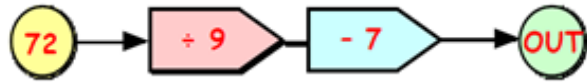
Marks

1.	Change each percentage to a decimal and then to a fraction in its simplest form:- (a) 50%                      (b) 10%	Num 4
	<b>Working :</b>	

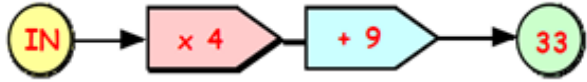
2.	Find :- a) 10% of £85                      b) 25% of 28 kg	Num 4
	<b>Working :</b>	

3

a What number should come out of this number machine?



b What number must have gone in this number machine?



Num  
2

Working :

4.

Solve the following equations :-

a)  $P + 7 = 13$

b)  $3x = 18$

Num  
2

Working :

5.

In this question you can choose  $y$  only from the numbers....

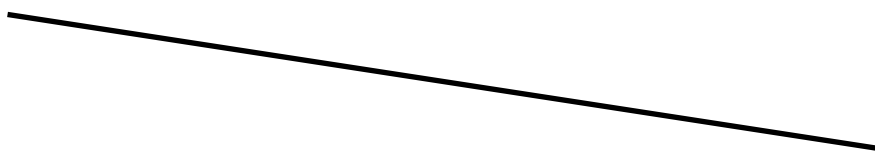
$\{-4, -3, -2, -1, 0, 1, 2, 3\}$

Write down the solutions for  $y > -2$

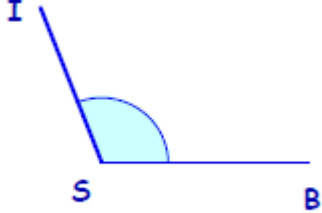
Num  
2

Working :

6.	Solve the following inequalities, leaving your answer in the form, (e.g. $x > 2$ ).  $x - 9 > 12$	<b>Num</b> <b>1</b>
<b>Working :</b>		

7.	Measure the line and write its length in millimetres.  	<b>Meas</b> <b>1</b>
<b>Working :</b>  _____ mm		

8.	Convert the following values to the given units  a) 2.5m ( change into cm )  b) 850ml ( change into litres )	<b>Meas</b> <b>2</b>
<b>Working :</b>  a) _____ cm  b) _____ litres		

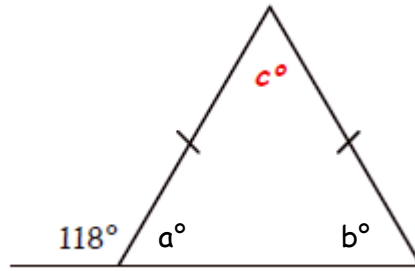
9.	<p>For the angle below give the following :</p> <p>Name : _____</p> <p>Type : _____</p> <p>Size of the angle : _____ °</p> <div style="text-align: center;">  </div>	<b>Shape</b> 3
<p><b>Working :</b></p>		

10.	<p>a) I face NW. I turn 90° clockwise. What direction am I now facing ?</p> <p>b) I face SE. I make a quarter turn anti-clockwise. What direction am I now facing ?</p>	<b>Shape</b> 2
<p><b>Working :</b></p>		

11.

Find the 3 missing angles  $a$ ,  $b$ , and  $c$

Shape  
3



Working :

$$a^\circ = \underline{\hspace{2cm}}$$

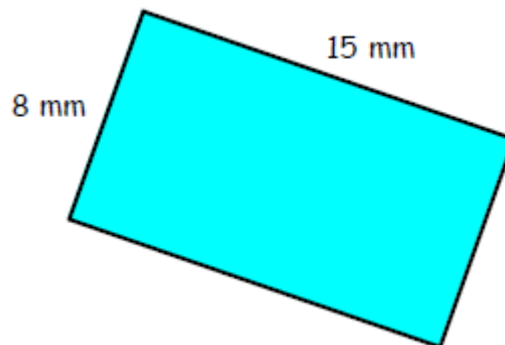
$$b^\circ = \underline{\hspace{2cm}}$$

$$c^\circ = \underline{\hspace{2cm}}$$

12.

Calculate the **area** of the shape.

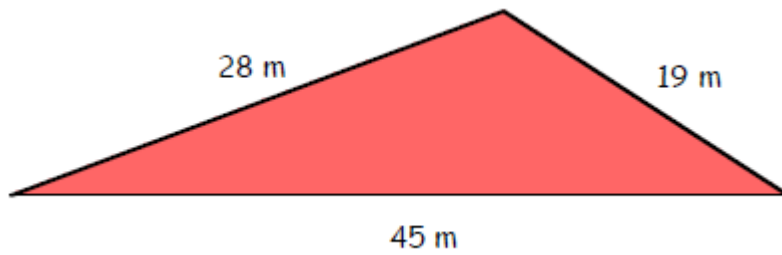
Shape  
2



Working :

13. Calculate the **perimeter** of this triangle.

**Shape**  
**2**

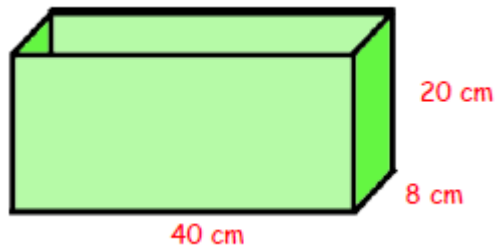


**Working**

14. (a) Find the volume of liquid this container will hold when full ?

**Shape**  
**4**

(b) Write the volume in litres.



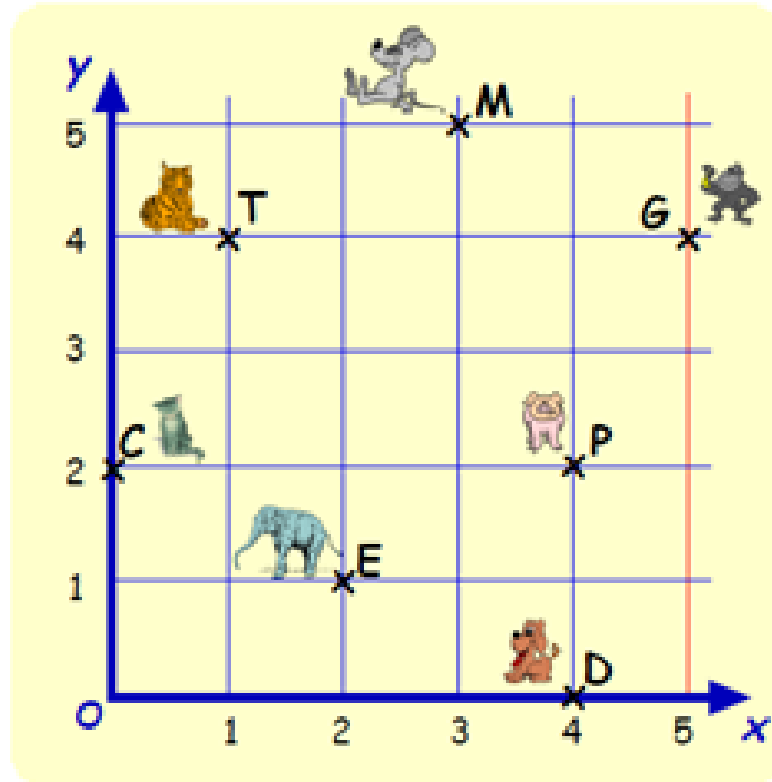
**Working :**

15.

Look at the coordinate grid shown.

Shape

7



- a) Write down the coordinates of :-
- (i) Point G
  - (ii) The Elephant E
  - (iii) The Dog D
- b) Which animal has an x-coordinate of 2?
- c) Which animal has a y-coordinate of 5?
- d) Which point lies on the :-
- (i) x-axis
  - (ii) y-axis?

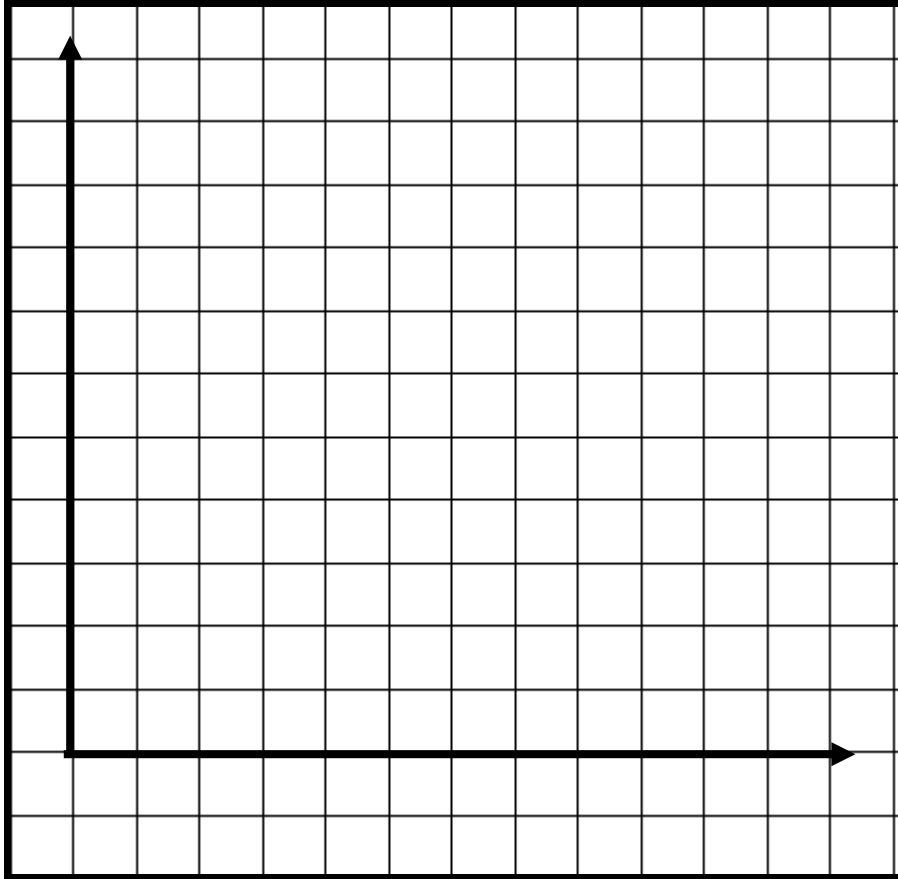
Working :

16.

- a) Label the axes and plot the points  $A(3, 1)$ ,  $B(11, 1)$  and  $C(11, 7)$
- b) Add the point D so that ABCD is a rectangle and write down the coordinates of the point D.


Shape  
7

Working :



PLEASE TURN OVER



17.	<p>There are <math>t</math> toffees in a jar. When 25 were eaten there were 75 left in the jar.</p>  <p>a) Make up an equation about the information above.</p> <p>b) Solve your equation to find <math>t</math>.</p>	PS 2
<p><b>Working :</b></p>		

18.	<p>A fisherman caught a salmon weighing 3 kg 850 g and a 450 g trout. What is the <b>combined</b> weight of the fish ?</p>	PS 2
<p><b>Working :</b></p>		