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**FORM 2**

**MATHEMATICS**  
**Non Calculator Paper**

**TIME: 30 minutes**

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

**Class:** \_\_\_\_\_

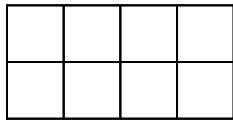
<b>Question</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>Total</b>
<b>Mark</b>									

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**Instructions to Candidates**

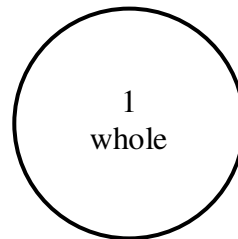
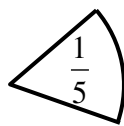
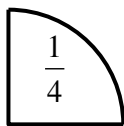
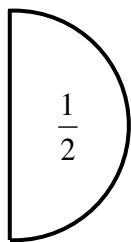
- **Answer ALL questions.**
  - **This paper carries a total of 25 marks.**
  - **Calculators and protractors are NOT ALLOWED.**
-

1. a) i) Shade  $\frac{1}{4}$  of this diagram.



ii) Fill in the blanks:  $\frac{1}{4} = \frac{\square}{8}$

b) **True** or **False**? Tick (✓) the correct box.



$$\frac{1}{2} + \frac{1}{4} + \frac{1}{5} = 1 \text{ whole}$$

**True**

**False**

(3 marks)

2. Fill in the blanks:

a)  $10 = \square \times 5$

b)  $12 = 4 \times \square$

c)  $25 = 5 \times \square$

(3 marks)

3. Work out the following:

a) 
$$\begin{array}{r} 13.1 \\ + 5.3 \\ \hline \end{array}$$

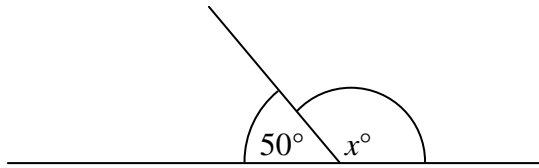
b) 
$$\begin{array}{r} 4.7 \\ - 1.5 \\ \hline \end{array}$$

c) 
$$\begin{array}{r} 13.2 \\ - 8.9 \\ \hline \end{array}$$

d) 
$$\begin{array}{r} 10.26 \\ + 1.81 \\ \hline \end{array}$$

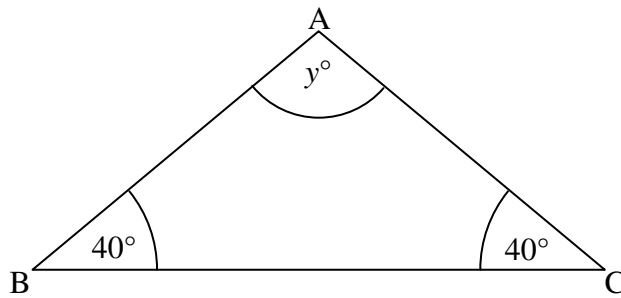
(4 marks)

4. a) Work out the value of  $x$ .



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

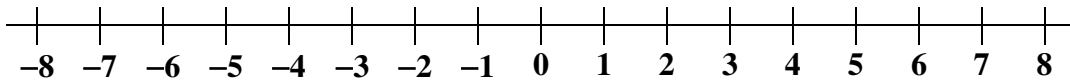
b) Work out the value of  $y$ .



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

(4 marks)

5.



Use the above number line to calculate the following:

a)  $-3 + 5 = \underline{\hspace{2cm}}$

b)  $-8 + 2 = \underline{\hspace{2cm}}$

c)  $5 - 7 = \underline{\hspace{2cm}}$

d)  $-3 - 2 = \underline{\hspace{2cm}}$

(4 marks)

6. Fill in the blanks:

a)  $56\% = \frac{\boxed{\hspace{1cm}}}{100} = \frac{28}{50} = \frac{\boxed{\hspace{1cm}}}{\boxed{\hspace{1cm}}}$

b)  $\frac{2}{7} + \frac{3}{7} = \frac{\boxed{\hspace{1cm}}}{\boxed{\hspace{1cm}}}$

(3 marks)

7. There are 16 balloons in a packet.

Jake takes  $\frac{1}{4}$  of the balloons.

How many balloons does Jake take?



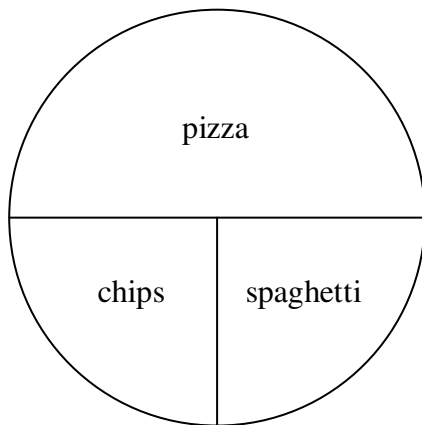
\_\_\_\_\_ balloons

(2 marks)

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8.

This pie chart shows the favourite food of a class of students.



5 students like **chips** best.

a) How many students like pizza?

\_\_\_\_\_ students

b) How many students are there in the class?

\_\_\_\_\_ students

(2 marks)

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**END OF PAPER**

**FORM 2**

**MATHEMATICS**  
**Main Paper**

**TIME: 1h 30min**

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Non Calc	Global Mark
Mark																		

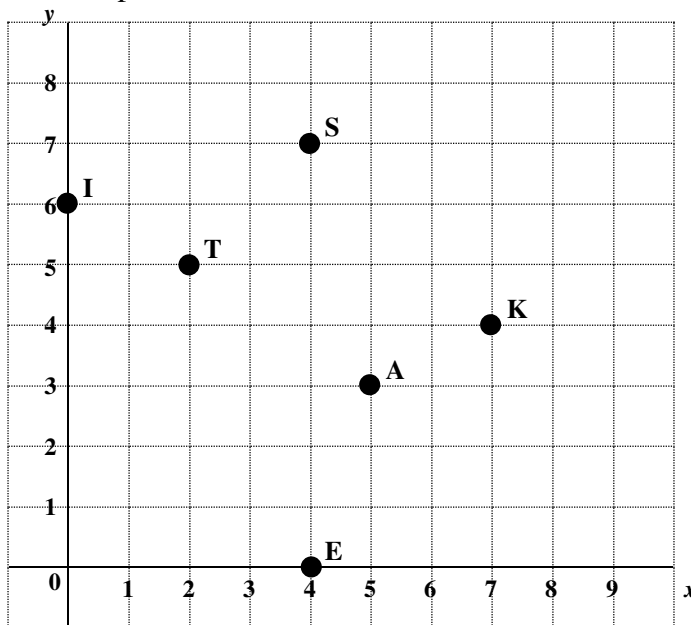
**DO NOT WRITE ABOVE THIS LINE**

Name \_\_\_\_\_

Class \_\_\_\_\_

**CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN.  
 ANSWER ALL QUESTIONS.**

1. Write down the letter of the points below, to form a word.



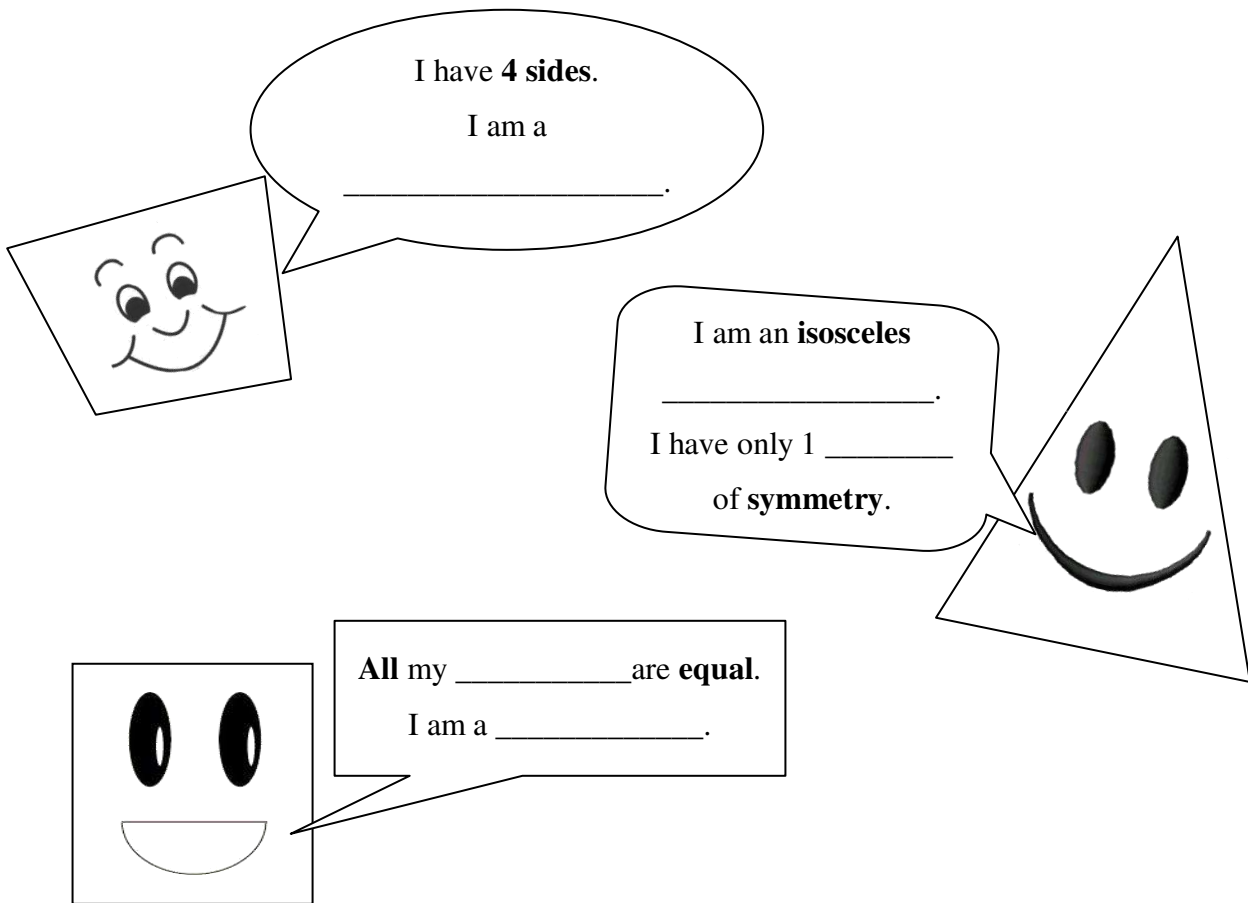
(7, 4)   (0, 6)   (2, 5)   (4, 0)

\_\_\_\_\_ I \_\_\_\_\_

(3 marks)

2. a) Fill in the blanks with the following words:

sides	line	quadrilateral	square	triangle
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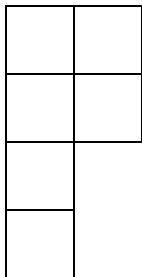


I have **4 sides**.  
I am a \_\_\_\_\_.

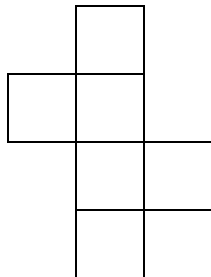
I am an **isosceles** \_\_\_\_\_.  
I have only 1 \_\_\_\_\_  
of **symmetry**.

All my \_\_\_\_\_ are **equal**.  
I am a \_\_\_\_\_.

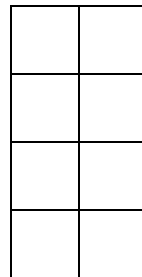
b) Which of the following drawings is a net that can be folded into a **cube**?



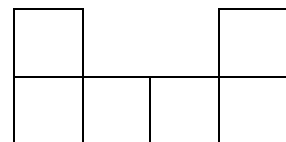
A



B



C



D

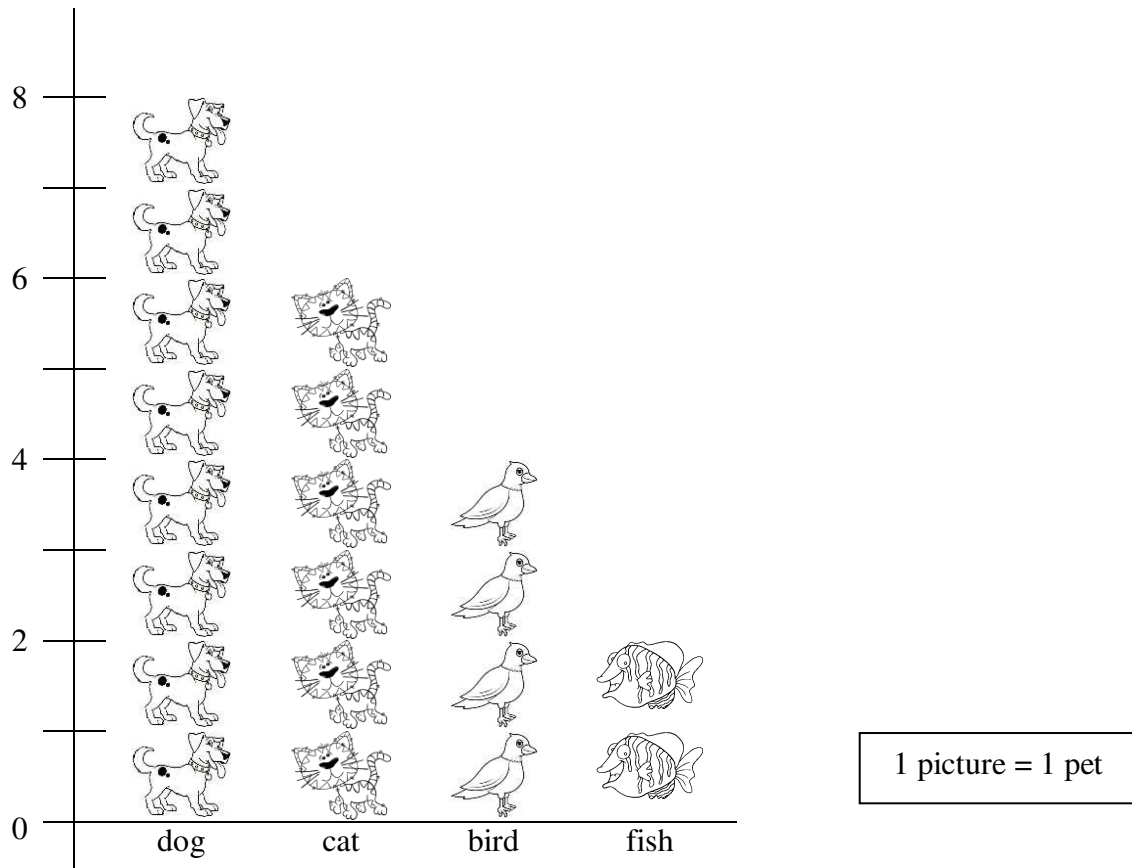
(5 marks)

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

Class: \_\_\_\_\_

Levels  
5 – 6 – 7

3. Mandy draws a chart to show all the pets of her friends.



a) Which is the **most favourite** pet? \_\_\_\_\_

b) How many pets do they have **in all**? \_\_\_\_\_ pets.

c) Underline the correct word :

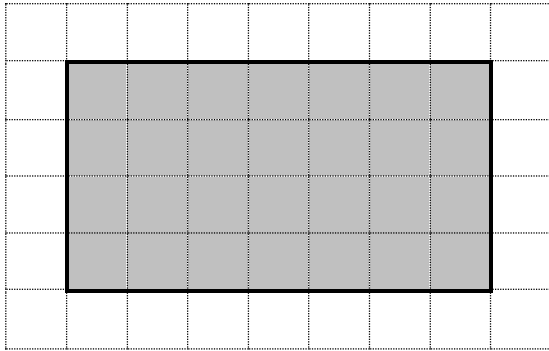
The probability that one of Mandy's friends has a **fish** is ( unlikely, evens, likely ).

d) Express the number of **birds** as a percentage of the total number of pets.

\_\_\_\_\_ %

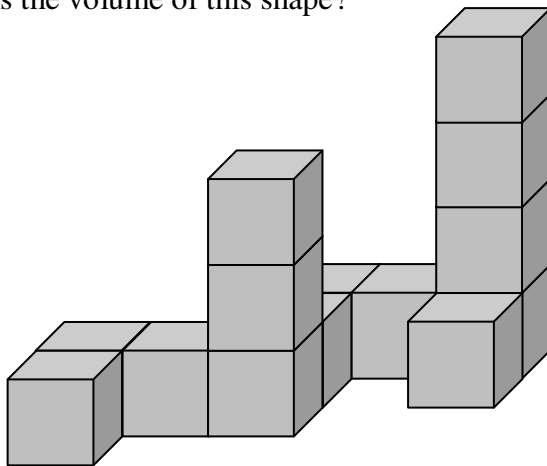
(5 marks)

4. a) Find the **area** of the shaded rectangle.



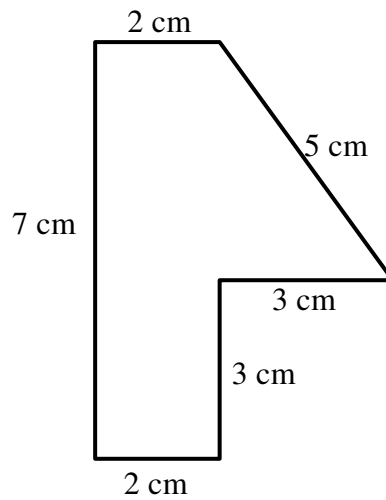
\_\_\_\_\_ squared units

b) What is the volume of this shape?



\_\_\_\_\_ cubic units

c) Work out the perimeter of this shape.



\_\_\_\_\_ cm

(4 marks)

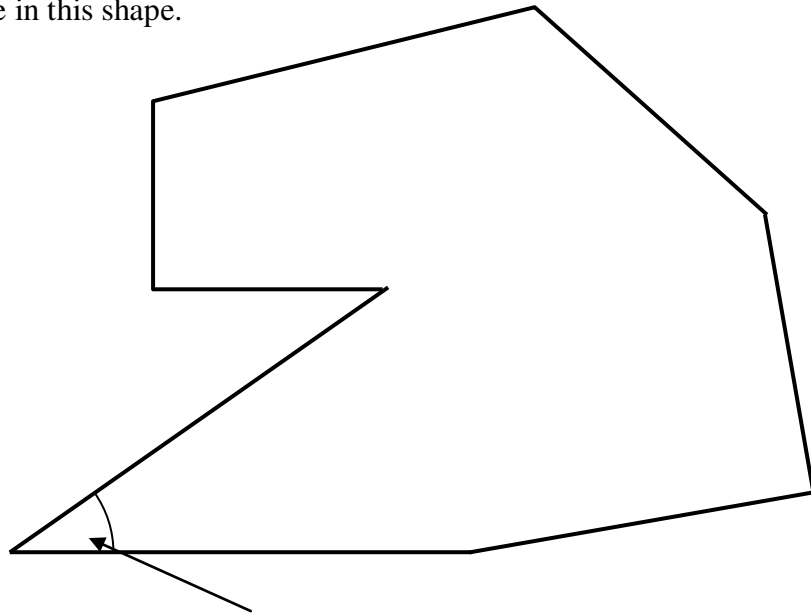


Name: \_\_\_\_\_

Class: \_\_\_\_\_

Levels  
5 – 6 – 7

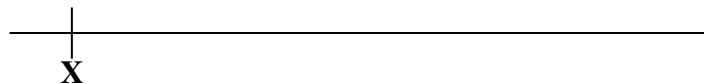
5. a) i) **Mark** a right angle in this shape.



ii) Use your protractor to **measure** this angle.

\_\_\_\_\_°

b) i) Use your protractor to **draw** an angle of  $70^\circ$ , at point **X**.

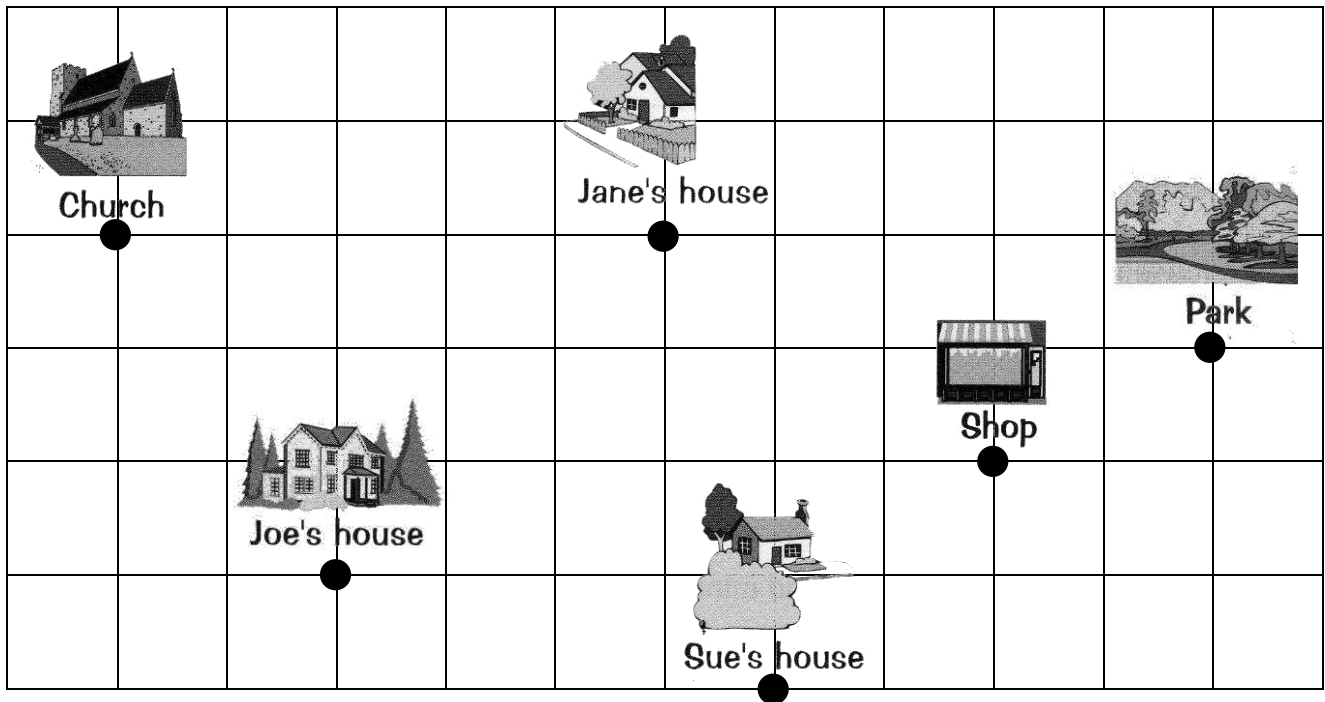


ii) **Underline** the correct word:

The above angle is ( an acute, a right, an obtuse ) angle.

(4 marks)

6. a) **Underline** the correct word:



i. Jane's house is to the ( left, right, North ) of the church.

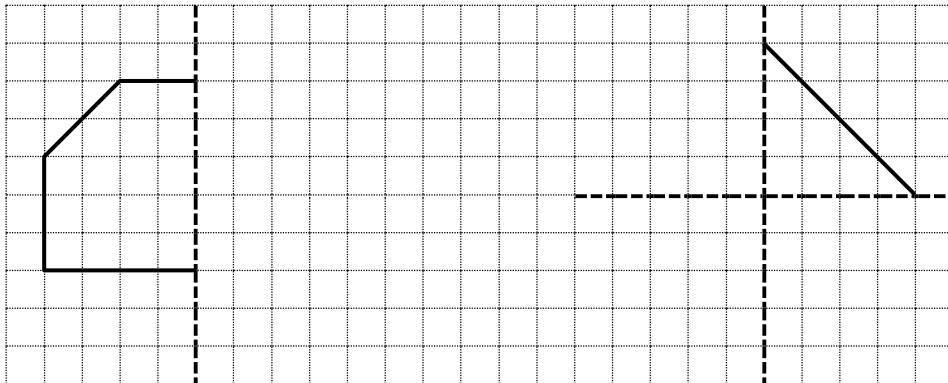
ii. Sue is at the park.

To get to her house Sue has to move 4 units ( left, up, right ) and 3 units down.

iii. Joe starts from his house and moves 6 units right and 1 unit up.

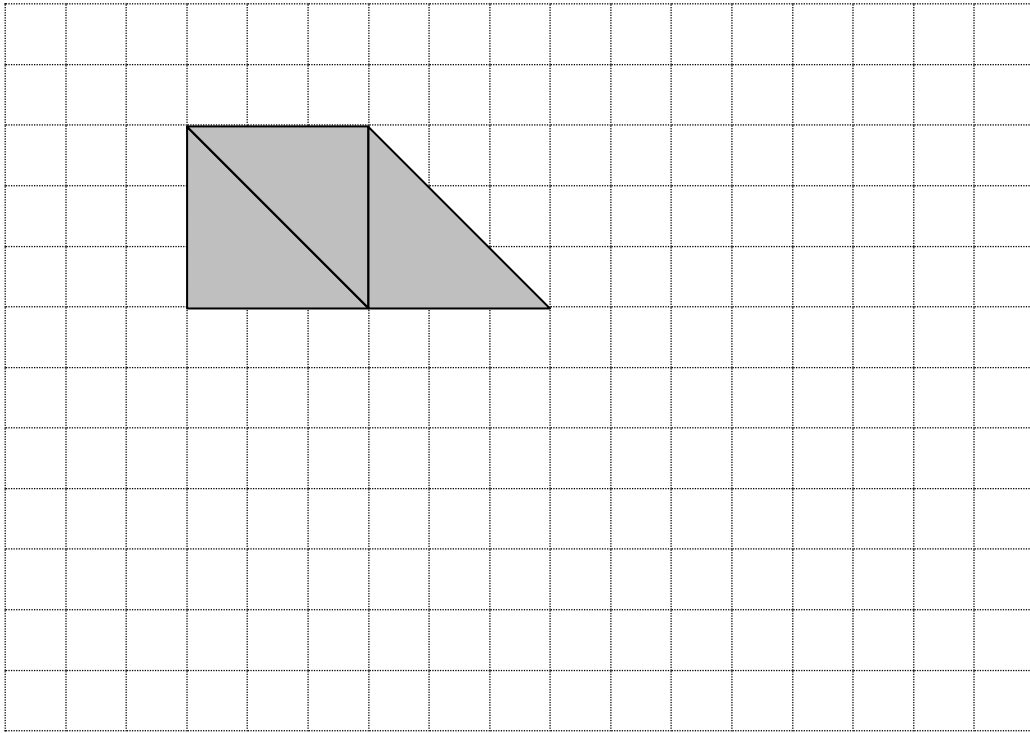
He arrives at the ( church, park, shop ).

b) **Complete** the following shapes, to make them symmetrical about the dotted lines.



(6 marks)

7. Continue this tessellation with **4 more** triangles.



(2 marks)

8.

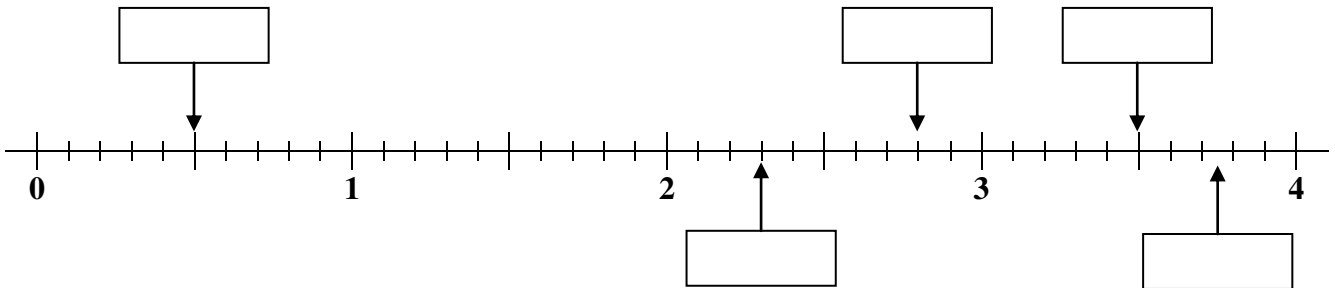


- a) Draw a **circle** around a **prime number**.
- b) Draw a **triangle** around the **largest square number**.
- c) From the above numbers, write down a number that is a **factor of 10**. \_\_\_\_\_
- d) Which of the above numbers is a **multiple of 10**? \_\_\_\_\_

(6 marks)

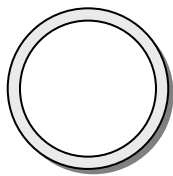
9. a) i) Place the following numbers in the correct boxes on the number line:

**3.5          2.8          2.3          0.5          3.75**



ii) Draw an arrow to show the position of the number **1.55**.

b) Martina is on the 4<sup>th</sup> floor, in a lift.  
 She goes **down** 6 floors to the car park.  
 Fill in the number that she presses.



- 5
- 4
- 3
- 2
- 1
- 0
- 1
- 2
- 3



c)                     **$x = y + 6$**   
 What is the value of  $x$  when  $y = 2$ ?

$x =$  \_\_\_\_\_

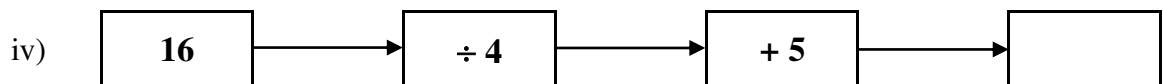
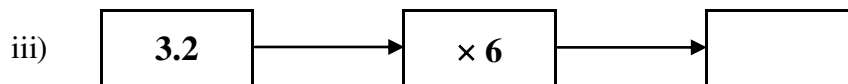
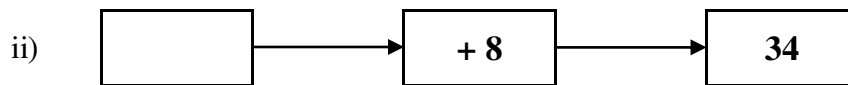
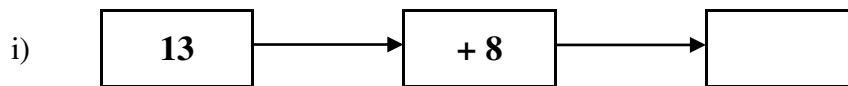
(9 marks)

10. a) Fill in the next 2 terms:



iii. 10, 8, 6, \_\_\_\_\_, \_\_\_\_\_

b) Fill in the blanks:



(9 marks)

11. Find the **mean** and **median** of the following marks:

4, 3, 2, 6, 5

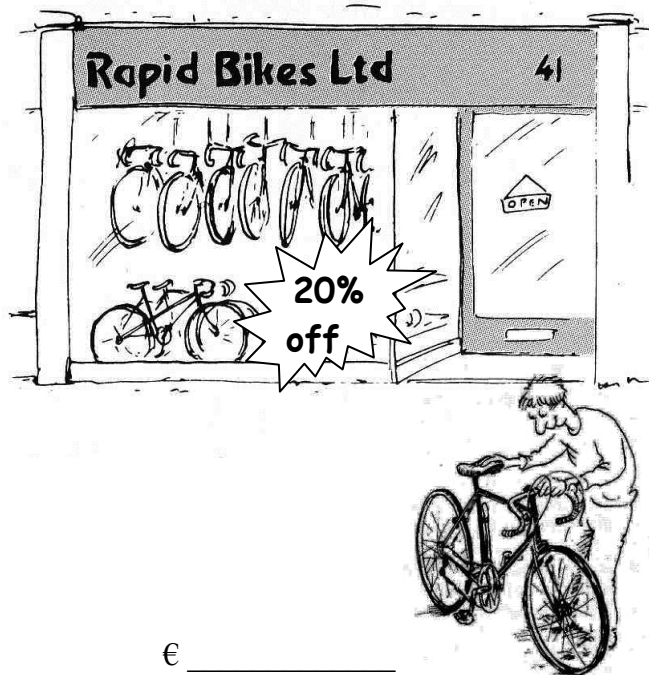
Mean = \_\_\_\_\_

Median = \_\_\_\_\_

(4 marks)

12. a) Fill in the blanks:  $\frac{9}{20} = \frac{45}{\square} = \square\%$

- b) Eric buys a bicycle.  
 The bicycle costs €165.  
 The shop offers a **discount of 20%**.  
 Calculate the discount offered.



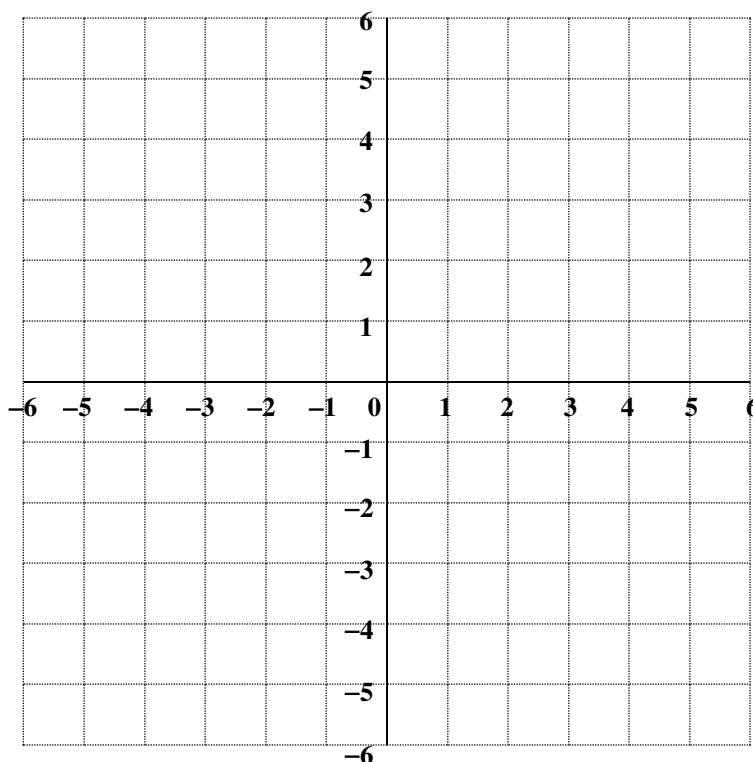
(5 marks)

13. Plot the following points and draw a **straight line**, passing through all the points.

A(1, 1)

B(0, -1)

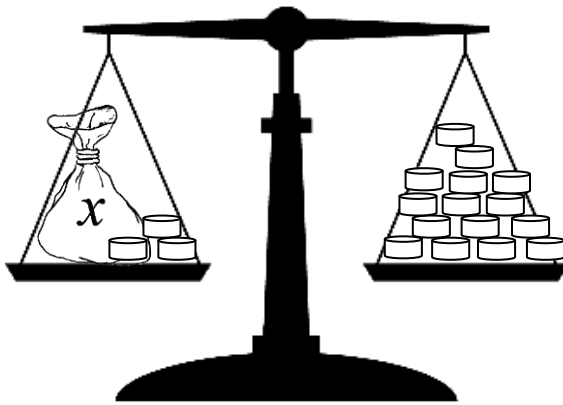
C(-2, -5)



(3 marks)

14. Find  $x$ .

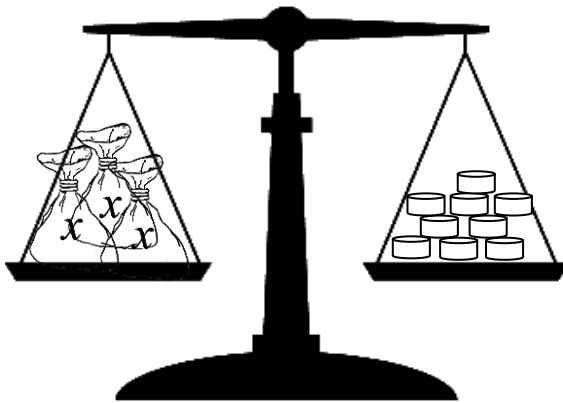
a)



$$x + 3 = 15$$

$$x = \underline{\hspace{2cm}}$$

b)



$$3x = 9$$

$$x = \underline{\hspace{2cm}}$$

(4 marks)

15. Chiara has a recipe for cup cakes for **6 persons**.



a) How many eggs are needed for **12 persons**?

\_\_\_\_\_ eggs

b) Simplify the **ratio of sugar is to flour**.

**sugar : flour**

100 : 150

\_\_\_\_\_ : \_\_\_\_\_

Chiara makes **20 cupcakes**.

She divides them between her brother and sister in the **ratio 3 : 2**.

c) How many cupcakes does she give her **sister**?



\_\_\_\_\_ cup cakes

(6 marks)

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**END OF PAPER**