



---

**FORM 1**

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

**TIME: 30 minutes**

---

**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>9</b>	<b>10</b>	<b>Total</b>
<b>Mark</b>											

---

### **Instructions to Candidates**

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

1. Work out the **sum** of: 27.86 and 9.05

\_\_\_\_\_ (1 mark)

2. Write in order of size, **smallest first**: one million,  $10^4$ , one hundred thousand.

\_\_\_\_\_ (2 marks)

3. Mike has forty-nine boxes each containing 51 cards.  
Work out the total number of cards.

\_\_\_\_\_ (2 marks)

4. a) Write down the number **nearest** to 4.

0.044    0.404    4.004    4.040    4.400

b) Work out:  $-2 - 3 =$

\_\_\_\_\_  
\_\_\_\_\_

c) At Peppi's farm 22 cows have spots.

At Leli's farm 50% of his 40 cows have spots.

Marica says that there are more cows with spots in Leli's farm.

Is she right? Explain.

Yes / No , because \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ (5 marks)

5. a) (i) List all the **square** numbers between **0** and **30**. \_\_\_\_\_

(ii) Anita thinks of an **even square** number between 0 and 30.

What can her number be?

\_\_\_\_\_ or \_\_\_\_\_

b) Fill in with the **smallest** number possible:

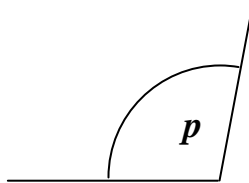
$$30 + \boxed{\phantom{00}} = \text{a multiple of 9}$$

c) Which of the following is a **prime number**?

12, 15, 23, 28, 33, 39

\_\_\_\_\_  
(4 marks)

6. Fill in:

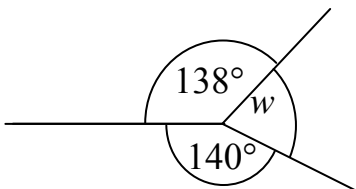


The size of angle **p** is about \_\_\_\_\_ .

45°      85°      100°      200°

\_\_\_\_\_  
(1 mark)

7. Calculate the value of the angle marked **w**.



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

\_\_\_\_\_  
(3 marks)

8. a) Express 3200 m in km.

\_\_\_\_\_

b) Henry made a scale model of a car using a scale of **1:20**.

If the model is 25 cm long, how long is the real car?

\_\_\_\_\_

*(2 marks)*

9. Complete the sequence:

\_\_\_\_\_, -1, 1, 3, 5, \_\_\_\_\_

*(2 marks)*

10. a) Simplify:  $\frac{2}{7} + \frac{4}{7}$

\_\_\_\_\_

b) Work out:

$\frac{2}{5}$  of €25

€ \_\_\_\_\_

*(3 marks)*

**END OF PAPER**



**FORM 1** **MATHEMATICS** **TIME: 1h 30min**  
**Main Paper**

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

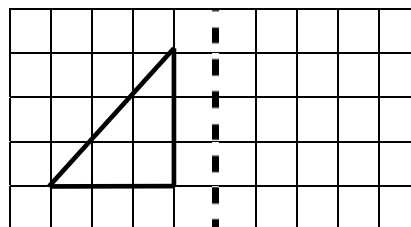
**DO NOT WRITE ABOVE THIS LINE**

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

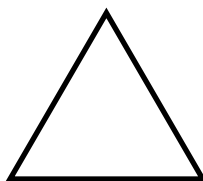
Class: \_\_\_\_\_

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

- 1 a) Complete the shape to make it **symmetrical** about the broken line.



- b) Fill in:  
 This triangle has **rotational** symmetry of order \_\_\_\_\_.



- c) Which of the following quadrilaterals does **not** have a line of symmetry?

**KITE    PARALLELOGRAM    RECTANGLE    CIRCLE**

\_\_\_\_\_ (3 marks)

2. a) (i) Show the time *quarter past seven* on the clock face.



(ii) Write the time **half** an hour **later**.

\_\_\_\_\_

b) If today is Sunday ninth May, what **date** was it last Sunday?

\_\_\_\_\_

c) Annabel is doing a summer job from **9:00** am till **14:00**.

She is paid €5.34 per hour.

If she takes a 1 hour **unpaid** break everyday, how much does she earn:

(i) in 1 day?

€\_\_\_\_\_

(ii) in a five-day week, correct **to the nearest** euro?

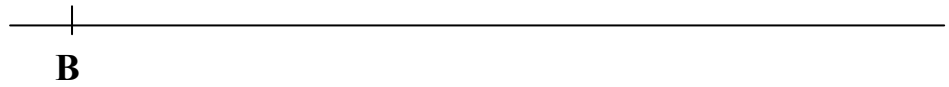
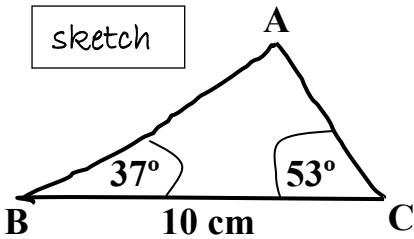
€\_\_\_\_\_ (*correct to nearest euro*)  
(8 marks)

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

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

**B**

3. The diagram shows a sketch of  $\triangle ABC$ . Use the following instructions to construct an accurate diagram.



- Mark point C on the line, 10 cm away from point B.
- Use a protractor to draw an angle of  $37^\circ$  at B and an angle of  $53^\circ$  at C.
- Continue to make an accurate, **labelled** drawing of  $\triangle ABC$ .
- Measure angle A.

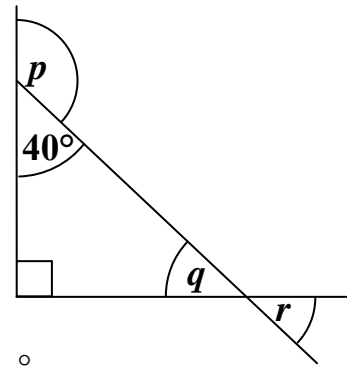
Angle A = \_\_\_\_\_

- Mark and label point X, the midpoint of BC.
- Draw a circle with centre X and with AX as radius.

(8 marks)

4. a) Work out the size of the lettered angles.

(i)  $p$



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

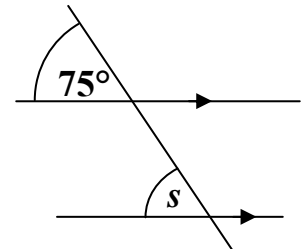
(ii)  $q$

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

(iii)  $r$

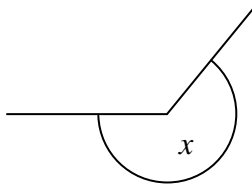
$r = \underline{\hspace{2cm}}^\circ$

(iv)  $s$

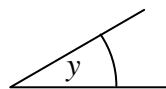


$s = \underline{\hspace{2cm}}^\circ$

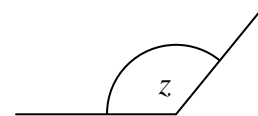
b) Write **acute angle**, **obtuse angle**, **right angle** or **reflex angle** under the appropriate diagram.



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



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



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

(8 marks)

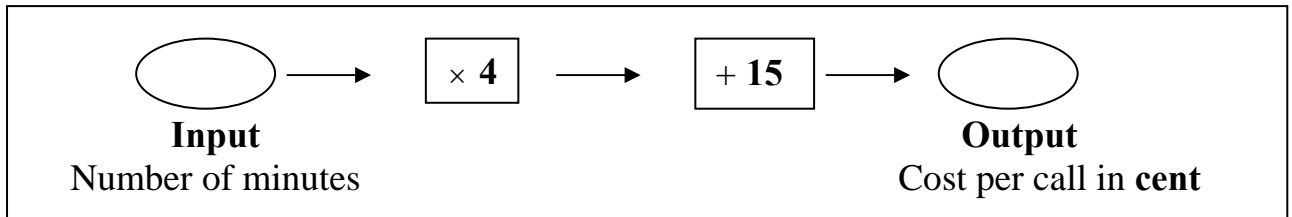


Name: \_\_\_\_\_

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

**B**

5.a) *Magic Mobile* uses this number machine to calculate the cost per call:



(i) Charlotte makes a **5 minute** call. How much does her call cost?  
 \_\_\_\_\_ cent

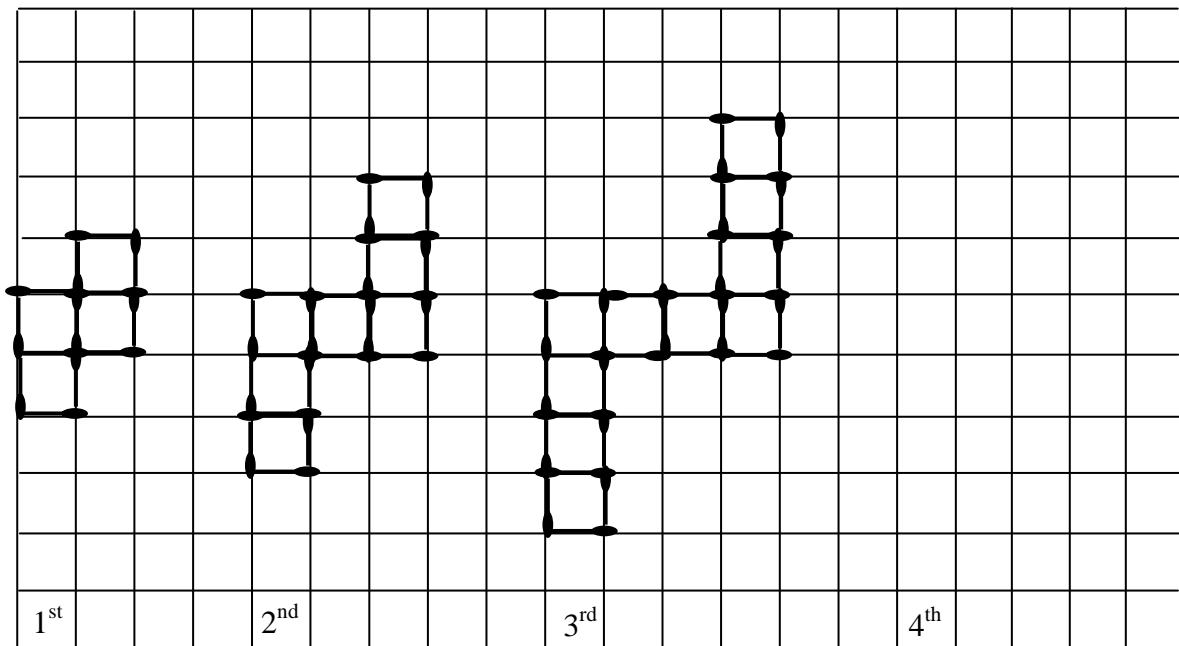
(ii) Xandru makes a **10 minute** call. He says he will pay **twice** as much as Charlotte. Is he correct? Explain.

---



---

b)



(i) Draw the 4<sup>th</sup> pattern in this sequence made up of matches.

(ii) Complete this table:

Pattern number	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>
Number of matches	4	7			

(7 marks)

6. The table shows the pocket money (in euro) earned per week by a group of children.

5	5	10	10
10	10	10	10
12	12	12	15
15	15	18	20
20	25	25	30

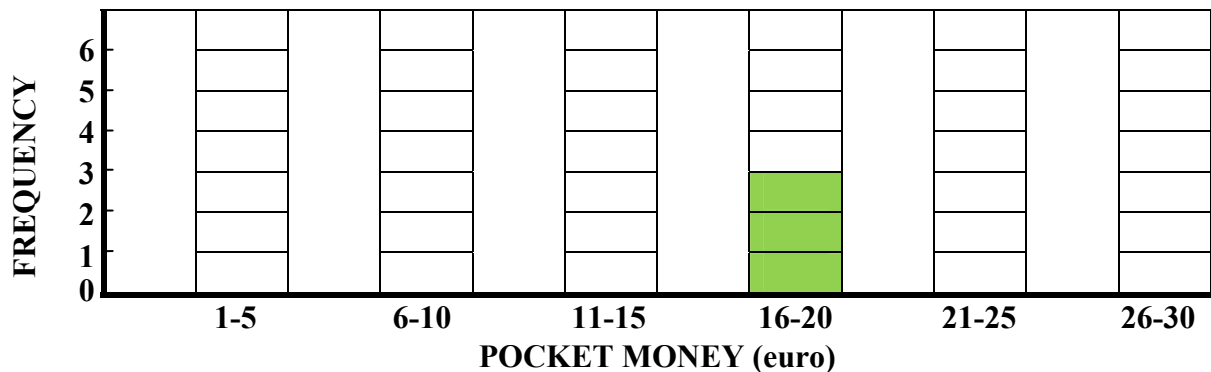
a) What is the **range** of pocket money?

€ \_\_\_\_\_

b) Complete the table.

Pocket money	Tally	Frequency
1 - 5	//	2
6 - 10		
11 - 15	//// /	
16 - 20		
21 - 25		
26 - 30		
<b>Total</b>		<b>20</b>

c) Continue shading the bar chart to represent the above information.



d) Fill in the spaces.

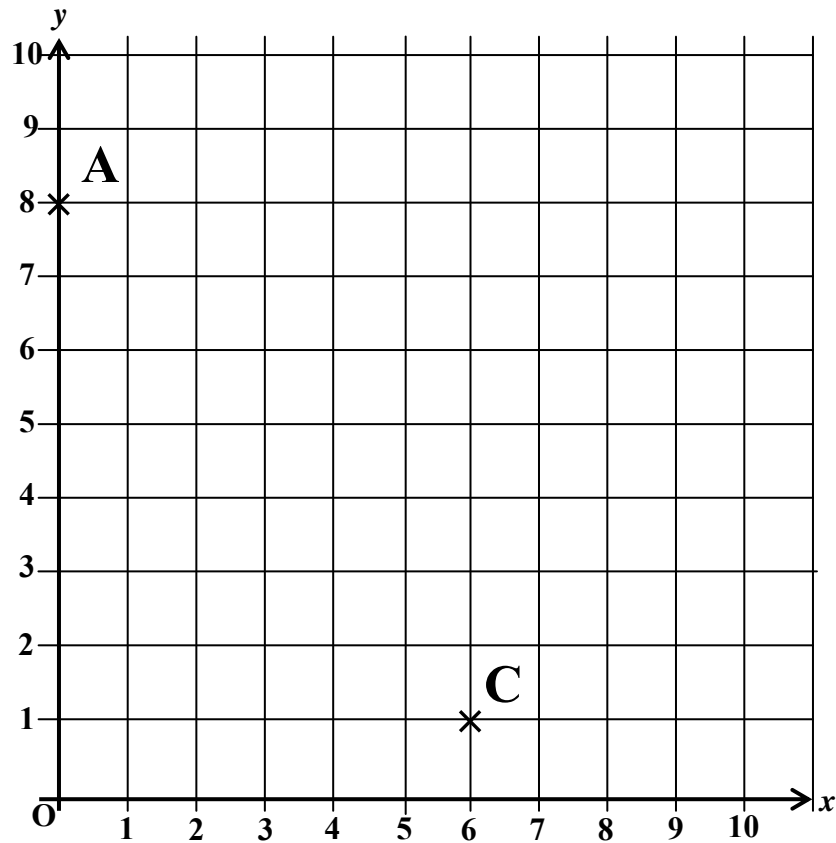
The number of children who received **less than €16** : those who received **€16** or more

= \_\_\_\_\_ : \_\_\_\_\_

e) What is the probability of receiving **more than €20** in this group?

\_\_\_\_\_ (8 marks)

7.

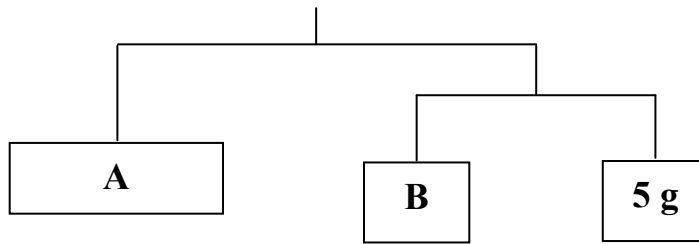


- a) Write the co-ordinates of **A** (   ,   ) and **C** (   ,   ).
- b) Plot and label the point **B** (8 , 7).
- c) Use a ruler to join **A** to **B** to **C** to form a triangle.
- d) What is this triangle called?

---

(8 marks)

8. a)



The diagram shows a balanced scale. Fill in the spaces below.

(i)  $B = \text{_____ g}$

(ii)  $A = \text{_____ g}$

(iii) Find the value of  $x$  when

$$x + 8 = 10$$

$$x = \text{_____}$$

(iv) Find the value of  $y$  when

$$2y - 3 = 7$$

$$y = \text{_____}$$

b) Complete the LOGO command that draws a **square** whose **perimeter** is **200** turtle steps.

**PD REPEAT \_\_\_\_\_ [ FD \_\_\_\_\_ RT \_\_\_\_\_ ]**

*(8 marks)*

9. a) Tidy up:

(i)  $4a + 9b + a - 2b =$  \_\_\_\_\_

(ii)  $2(3p - 4) + p =$

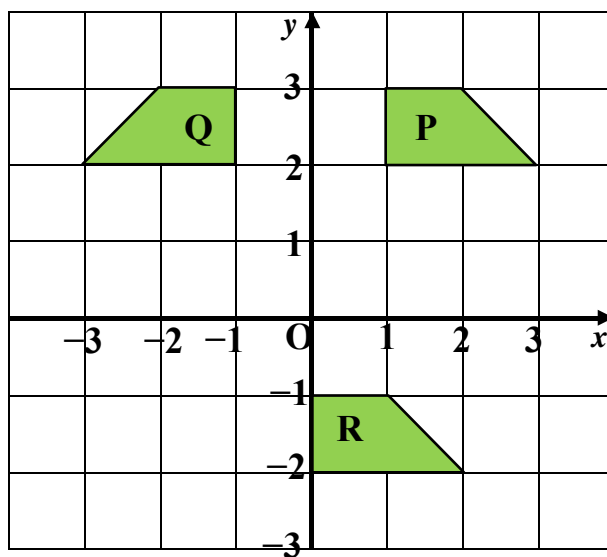
\_\_\_\_\_

b) If  $h = 2$  and  $j = 5$ , work out the value of  $3(h + j)$ .

\_\_\_\_\_

(7 marks)

10.



For each of the following describe *fully* the transformation which takes the first shape on to the second.

a) **P to Q** \_\_\_\_\_

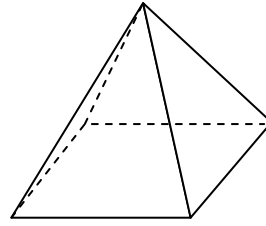
b) **P to R** \_\_\_\_\_

(5 marks)

11. a)

Fill in:

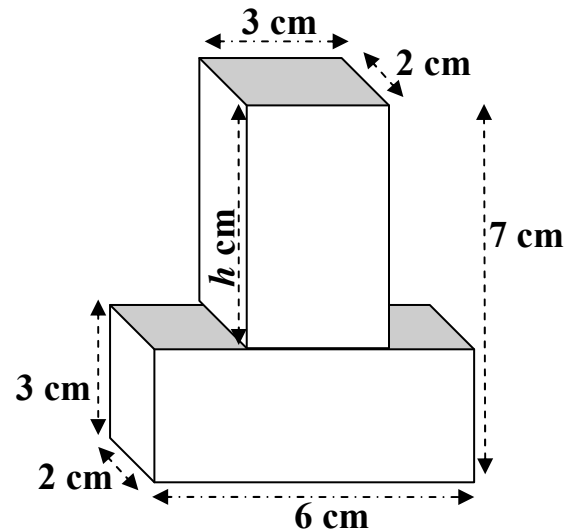
This solid has \_\_\_\_\_ edges.



b)

(i) Calculate the value of  $h$ .

$h =$  \_\_\_\_\_ cm



(ii) Work out the total **volume** of the solid formed by the two cuboids.

\_\_\_\_\_ cm<sup>3</sup>

(5 marks)

---

END OF PAPER