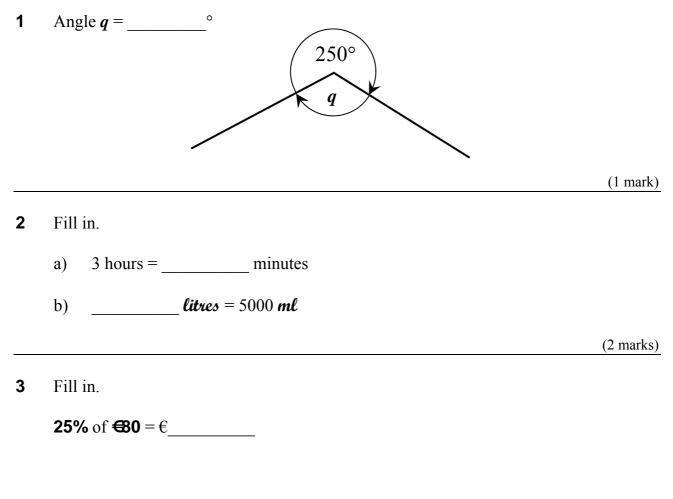


#### FORM 3 **MATHEMATICS SCHEME C TIME: 30 minutes Non Calculator Paper** Class: \_\_\_\_\_ Name: Question 1 2 3 4 5 6 7 8 9 Total

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## **INSTRUCTIONS TO CANDIDATES**

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



(2 marks)

4 Complete this **multiplication grid**.

×	75	4.2
10		42
100	7500	

(2 marks)

**5** The table shows the **test marks** of 5 students.

Name	Mark
Bertu	7
Ġorġ	5
Anna	5
Toni	4
Mari	9

- a) **Median** = \_\_\_\_\_
- b) Work out the **mean** (average) mark.

Mean	(average) =	
------	-------------	--

(3 marks)

**6** a) Work out.

100 – 30 × 3 =	=
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b) A car travels **240 km** in **4 hours**. Work out the **speed** of the car.



<b>Speed</b> =	km/h
----------------	------

(3 marks)

**7** Fill in.

a) 
$$\frac{5}{8} - \frac{3}{8} = \frac{3}{8} = \frac{3}{4}$$
  
b)  $\frac{3}{10} + \frac{1}{5} = \frac{3}{10} + \frac{3}{10} = \frac{3}{10} = \frac{1}{10}$ 

(4 marks)

**8** a) This LOGO statement draws a **rectangle**.

# PD REPEAT 2 [FD 200 RT 90 FD 120 RT 90]

Work out the **perimeter** of this **rectangle**.

**Perimeter** = \_\_\_\_\_ turtle steps

b) The **area** of the rectangle is **30 cm<sup>2</sup>**. Work out the **length** of this rectangle.



Length = \_\_\_\_\_ cm

(4 marks)

**9** Complete the table.

	Temperature (°C)	Goes	New Temperature (°C)	F C
а	5	down 8°C	-3	120 = 50 $100 = 40$
b	10	down 5°C		
c	-3	<b>up</b> 10°C		40 - 0 2010
d	-6	up 4°C		-20 -20 -40
e	-3		-5	

#### FORM 3 TIME: 1h 30min **MATHEMATICS** Main Paper 2 3 4 5 6 7 8 9 10 11 12 13 14 NC Main Total 1

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

Calculators are allowed but the necessary working must be shown. Answer all guestions.

- 1 Use your calculator to divide 200 by 3. Write your answer correct to
  - a) the **nearest whole number**\_\_\_\_\_
  - b) two decimal places \_\_\_\_\_
- **2** a) Use your **ruler** to find the **length** of this pencil.

Length = cm

b) When new, the pencil was **double** the length it is now. Work out the length of the pencil when it was new.

**Length** = \_\_\_\_\_ cm



Class:

(2 marks)

(3 marks)

**3** a) Fill in.



b) A dress costs €125.Work out the SALE price.



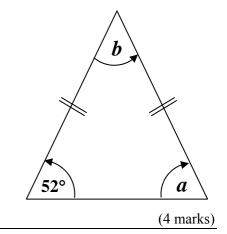
Sale price =  $\in$ \_\_\_\_\_



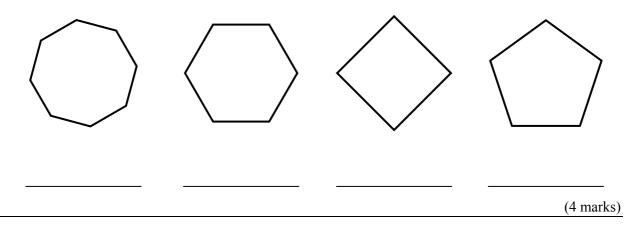
- **4** a) **Underline** the correct answer.
  - i) The sum of the **three angles of a triangle** is (**90°**, **180°**, **360°**).
  - ii) A hexagon has (6, 8, 10) sides.
  - b) The diagram shows an **isosceles triangle**.



*a* = \_\_\_\_\_°



5 Write the correct name. Use the words below. SQUARE, PENTAGON, HEXAGON, OCTAGON



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

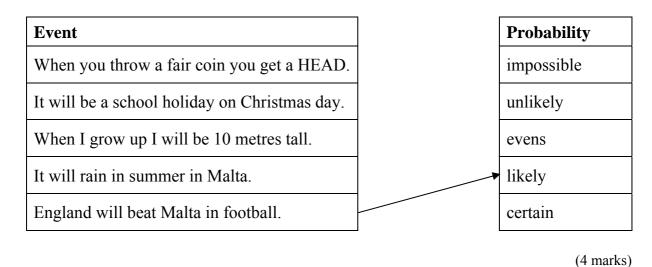
6 Match the equation to its solution.

	Equation	Solution
a	x + 6 = 10	x = 10
b	x - 7 = 2	x = 4
c	3x = 15	<i>x</i> = 9
d	$x \div 2 = 5$	<i>x</i> = 1
e	5x - 2 = 3	<i>x</i> = 5

Class:

(4 marks)

7 Match the **event** to the **probability**.



- **8** a) Use **ruler and compasses only** to draw an **equilateral triangle** with sides **6 cm**.
  - b) Fill in.

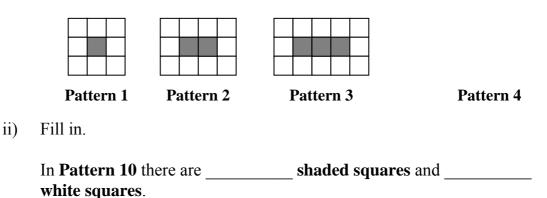
**Each angle** of this triangle = \_\_\_\_\_°

(4 marks)

**9** a) Write down the **missing numbers**.

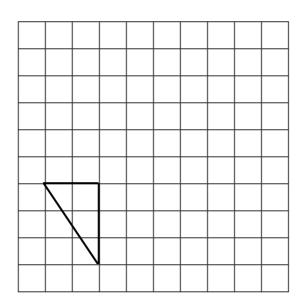
- i) **4, 8, 12, 16**, \_\_\_\_, **24, 28**, \_\_\_\_
- ii) **64, 32, 16, 8, \_\_\_\_, 2, 1, \_\_\_\_**

b) i) Draw **Pattern 4**.



(8 marks)

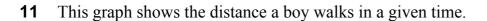
**10** a) **Enlarge** the triangle. Use a ratio of **1 : 3**.

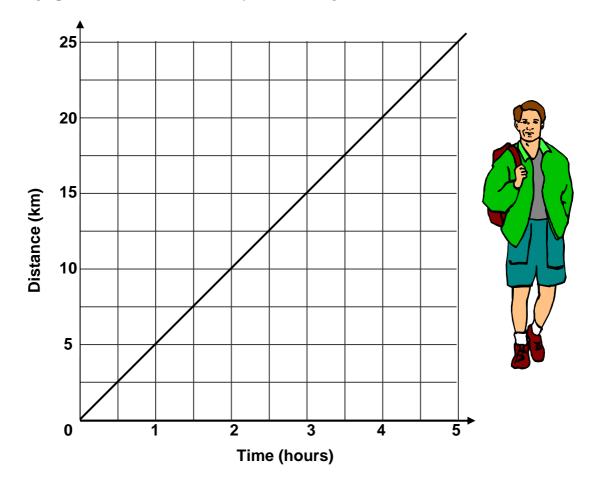


b) Fill in.

- i) Area of small triangle =  $\_ cm^2$
- ii) Area of enlarged triangle =  $\_ cm^2$
- iii) Area of small triangle : Area of enlarged triangle = 1 : \_\_\_\_\_

(7 marks)



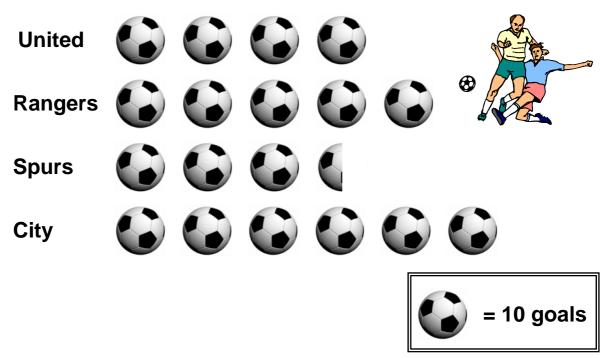


a) Use this graph to fill in.

- i) In **3 hours** the boy walks \_\_\_\_\_\_ kilometres.
- ii) In \_\_\_\_\_ hours the boy walks **20 km**.
- iii) In  $2\frac{1}{2}$  hours the boy walks \_\_\_\_\_\_ kilometres.
- iv) In \_\_\_\_\_ hours the boy walks **40 km**.
- b) **Speed** =  $\_$  km/h

(7 marks)

**12** The **pictogram** shows the **number of goals** scored by four teams.



- a) **Underline** the correct answer.
  - i) (United, Rangers, Spurs, City) scored most goals.
  - ii) Rangers scored (5, 10, 25, 50) goals.
  - iii) (United, Rangers, Spurs, City) scored 40 goals.
  - iv) Spurs scored (10, 30, 35, 40) goals.
- b) i) How many goals did **City** score? \_\_\_\_\_ goals
  - ii) City played **20 matches**. Work out the mean (**average**) number of goals scored per match.

Average = \_\_\_\_\_ goals

(7 marks)

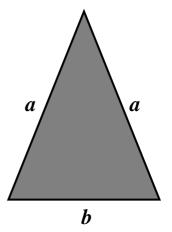
**13** a) Underline the correct answer.

A triangle with **no equal sides** is (scalene, equilateral, isosceles).

b) Mario uses the formula

Perimeter = 
$$2a + b$$

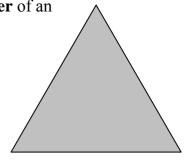
to find the **perimeter** of an **isosceles triangle**.



Complete the table.

a	b	Perimeter
7	5	
	4	22

c) Katrina uses this number machine to find the perimeter of an equilateral triangle.
Complete the number machine.



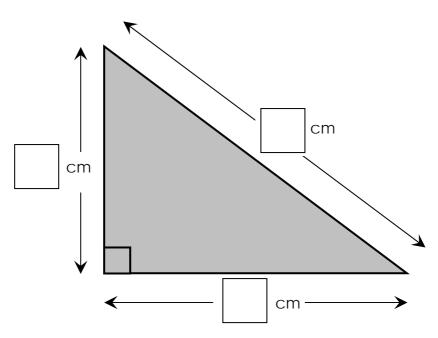


d) The **perimeter** of an equilateral triangle is 27 cm. Work out the length of **one of its sides**.

Length = \_\_\_\_\_ cm

(8 marks)

**14** a) **Measure** the **sides** of the **triangle**. **Fill in** the missing measurements.



b) Work out the **perimeter** and **area** of the **triangle**.

