



**FORM 4**

**MATHEMATICS SCHEME D**  
**Non Calculator Paper**

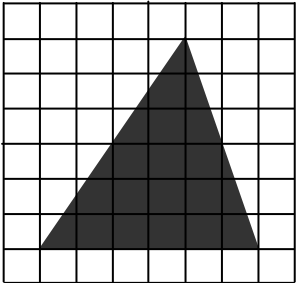
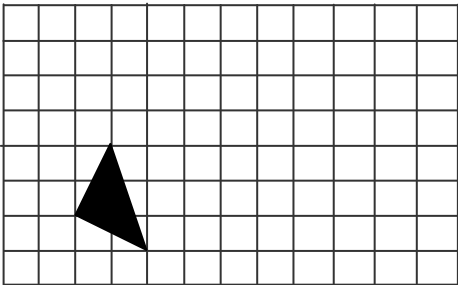
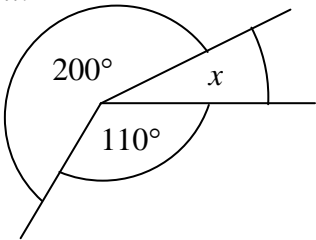
**TIME: 20 minutes**

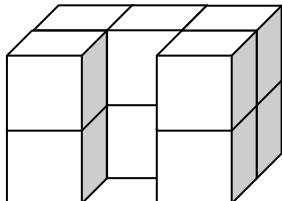
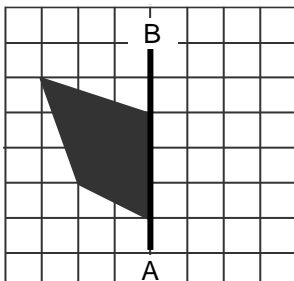
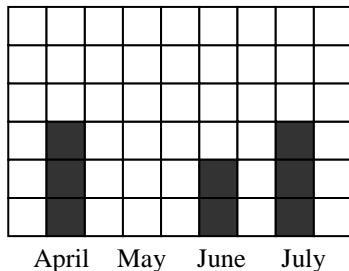

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
Mark																					

### INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries a total of 20 marks.
- Calculators and protractors are NOT ALLOWED.

No.	QUESTION	SPACE FOR WORK REQUIRED
1.	<p>Write down the smallest number:</p> <p>A) 134    B) 1435    C) 14    D) 1320</p> <p>Answer: _____</p>	
2.	<p>Four cinema tickets cost €24. How much do six tickets cost?</p> <p>Answer: €_____</p>	
3.	<p>Write down the output of this number machine in the empty box.</p> <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">Input</div> <div style="border: 1px solid black; padding: 5px 10px;">10</div> <div>→</div> <div style="border: 1px solid black; padding: 5px 10px;">× 6</div> <div>→</div> <div style="border: 1px solid black; padding: 5px 10px;">+ 2</div> <div>→</div> <div style="border: 1px solid black; padding: 5px 10px;">Output</div> </div> <p>Answer: _____</p>	
4.	<p>Solve:                    <math>5x + 5x = 20</math></p> <p>Answer: _____</p>	
5.	<p>Work out the mean of the following numbers:</p> <p style="text-align: center;">15    25    25    15    20</p> <p>Answer: _____</p>	
6.	<p>Fill in the box:</p> $\frac{18}{30} = \frac{\boxed{\phantom{000}}}{5}$	
7.	<p>Fill in the missing number:</p> <p style="text-align: center;">15    18    _____    24    27</p>	
8.	<p>One of these numbers is a prime number. Which one is it?</p> <p>A) 190            B) 19    C) 27            D) 125</p> <p>Answer: _____</p>	

9.	 <p>What is the area of the triangle? (Each square is 1 cm by 1 cm.)</p> <p>Answer: _____ cm<sup>2</sup></p>	
10.	<p>Adrian got 12 marks more than Paul in the English test. If Paul's mark is 27, what is Adrian's mark?</p> <p>A) 39      B) 18      C) 15      D) 50</p> <p>Answer: _____</p>	
11.	<p>Translate the shape shown by 5 units to the right and 3 units up.</p> 	
12.	<p>Find the size of <math>x</math>:</p>  <p>Answer: _____ °</p>	
13.	<p>A box contains 5 red marbles and 15 blue marbles. What is the probability that I pick a red marble?</p> <p>Answer: _____</p>	
14.	<p>A line has the equation <math>y = 2 + 2x</math>.</p> <p>When <math>x = 3</math>, <math>y =</math> _____</p>	

15.	Simplify: $2p + q - p + 3q = \underline{\hspace{2cm}}$									
16.	The side of each cube is 1 cm long. What is the volume of the shape?  Answer: $\underline{\hspace{1cm}}$ cm <sup>3</sup>									
17.	 The line AB is a line of symmetry of the shape shown. Complete the shape about the line of symmetry AB.									
18.	A stone weighs 2.36 kg. What is its weight in <i>grams</i> ? A) 236      B) 23600      C) 0.236      D) 2360 Answer: $\underline{\hspace{1cm}}$ g									
19.	The table below shows the number of people who applied for a job in a company: <table border="1" data-bbox="368 1358 878 1467"><tr><th>April</th><th>May</th><th>June</th><th>July</th></tr><tr><td>3</td><td>5</td><td>2</td><td>3</td></tr></table> Complete the bar graph.	April	May	June	July	3	5	2	3	
April	May	June	July							
3	5	2	3							
20.	The turtle starts from the position shown. Sketch the figure drawn by the turtle for this set of LOGO commands:  PD FD 100 RT 90 FD 50 RT 90 FD 100									

FORM 4

MATHEMATICS SCHEME D

TIME: 1h 40min

Main Paper

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

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

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

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

1. (a) Work out the following:

$$545 - 415 + 657 = \underline{\hspace{2cm}}$$

- (b) Two of the following numbers lie between  $\frac{1}{5}$  and  $\frac{9}{10}$ .

$$2\frac{1}{2} \qquad \frac{3}{4} \qquad 1 \qquad \frac{4}{5}$$

The numbers are \_\_\_\_\_ and \_\_\_\_\_.

(4 marks)

2. (a) Simplify the ratios

(i) 12:15

Answer: \_\_\_\_\_

(ii) 15:25

Answer: \_\_\_\_\_

- (b) Write down the number 28,200 in words.

\_\_\_\_\_

(4 marks)

3. (a) Write  $2.567 \times 10^4$  as an ordinary number.

Answer: \_\_\_\_\_

- (b) Fill in:  $2 \times 2 \times 2 = 2^{\square}$

- (c) How many days are there from the 25<sup>th</sup> of March to the 1<sup>st</sup> of May?

Answer: \_\_\_\_\_ days

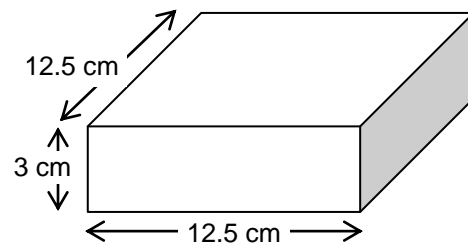
- (d) What is  $\frac{3}{5}$  of 25?

Answer: \_\_\_\_\_

(4 marks)

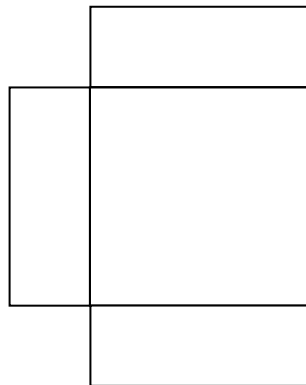
4. A closed box is in the shape of a cuboid.

- (a) Work out the volume of the box.



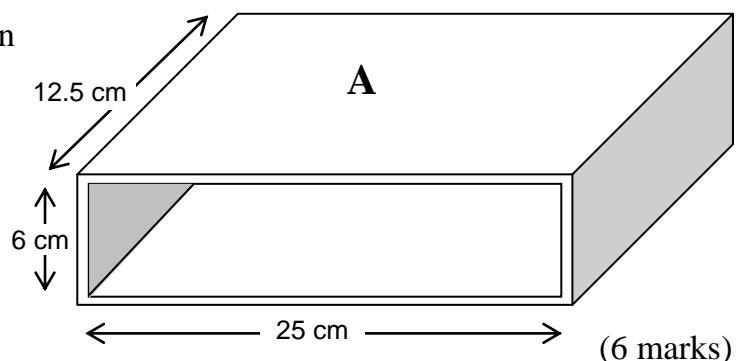
Answer: \_\_\_\_\_  $\text{cm}^3$

- (b) Below is shown part of the net of the box. Complete the net.



- (c) How many of these boxes can fit in the open box **A**?

Answer: \_\_\_\_\_

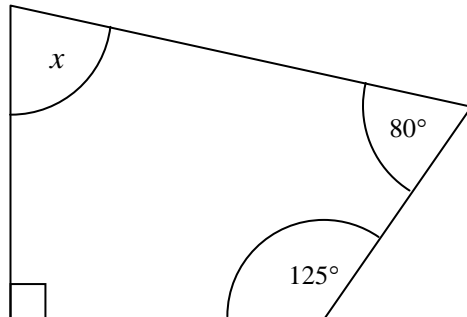


(6 marks)

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

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

5. (a) The sum of the angles in a quadrilateral is \_\_\_\_\_<sup>°</sup>.
- (b) Calculate the value of angle  $x$ .



Answer: \_\_\_\_\_<sup>°</sup>

(4 marks)

- 
6. (a) My water and electricity bill is €2440 this year. It is €240 more than last year's.
- (i) What was last year's bill?

Answer: €\_\_\_\_\_

- (ii) I paid  $\frac{3}{4}$  of this year's total bill for electricity. How much did I pay?

Answer: €\_\_\_\_\_

- (b) (i) Express 2357 to the nearest ten: \_\_\_\_\_.

- (ii) Work out:  $-244 - 56 =$  \_\_\_\_\_.

- (c) Calculate 20% of 360 m.

Answer: \_\_\_\_\_ m

(8 marks)

7. (a) A film starts at 8:30 pm. It ends at 11:15 pm. How long is the film?

Answer: \_\_\_\_\_ hours \_\_\_\_\_ minutes

- (b) A car costs €4500. I pay €2000.

- (i) How much do I still have to pay?

Answer: €\_\_\_\_\_

- (ii) I pay the rest of the money in equal sums for five months. How much do I pay each month?

Answer: €\_\_\_\_\_

(6 marks)

8. (a) Complete the following sequence:

4      10      16      \_\_\_\_\_      28      \_\_\_\_\_

- (b) Change 6152 g into kilograms.

Answer: \_\_\_\_\_ kg

- (c) *Fill in with less or greater.*

3894 m is \_\_\_\_\_ than 4.32 km.

(4 marks)



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

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

9. (a) Solve the equations:

(i)  $4x - 6 = 2$

Answer: \_\_\_\_\_

(ii)  $3x + 1 = 10$

Answer: \_\_\_\_\_

(b) Expand

$3(x - 5)$

Answer: \_\_\_\_\_

(6 marks)

10. (a) In a box there are 4 white, 10 black and 6 yellow counters. I pick a counter at random.

The statements below are either true or false. Tick the correct answer.

(i) The probability that I pick a black counter is  $\frac{1}{2}$ . ☐ True ☐ False

(ii) The probability that I pick a white counter is 0. ☐ True ☐ False

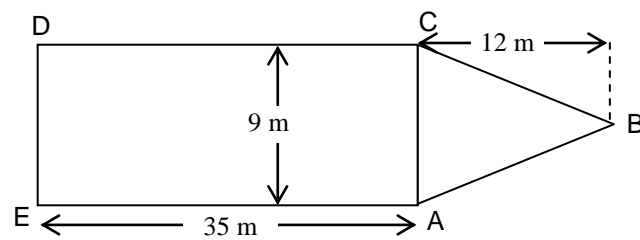
(iii) The probability that I pick a yellow counter is 1. ☐ True ☐ False

(b) A **fair** coin is tossed 100 times. Estimate the number of times the coin shows a Head.

Answer: \_\_\_\_\_

(4 marks)

11. (a) A garden has the shape shown. In the triangle  $AB = BC$ .



- (i) What is the triangle ABC called? Choose the correct answer.

*scalene* ☐

*right-angled triangle* ☐

*isosceles* ☐

- (ii) Calculate the area of the triangle.

Answer: \_\_\_\_\_  $\text{m}^2$

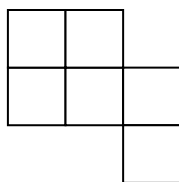
- (iii) Calculate the area of the rectangle.

Answer: \_\_\_\_\_  $\text{m}^2$

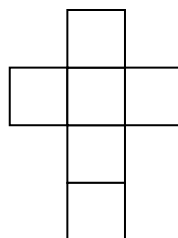
- (iv) What is the total area of the garden?

Answer: \_\_\_\_\_  $\text{m}^2$

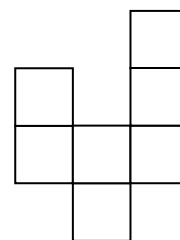
- (b) One of the nets shown is that of a cube. Which one is it?  
Tick the correct answer.



**A**



**B**



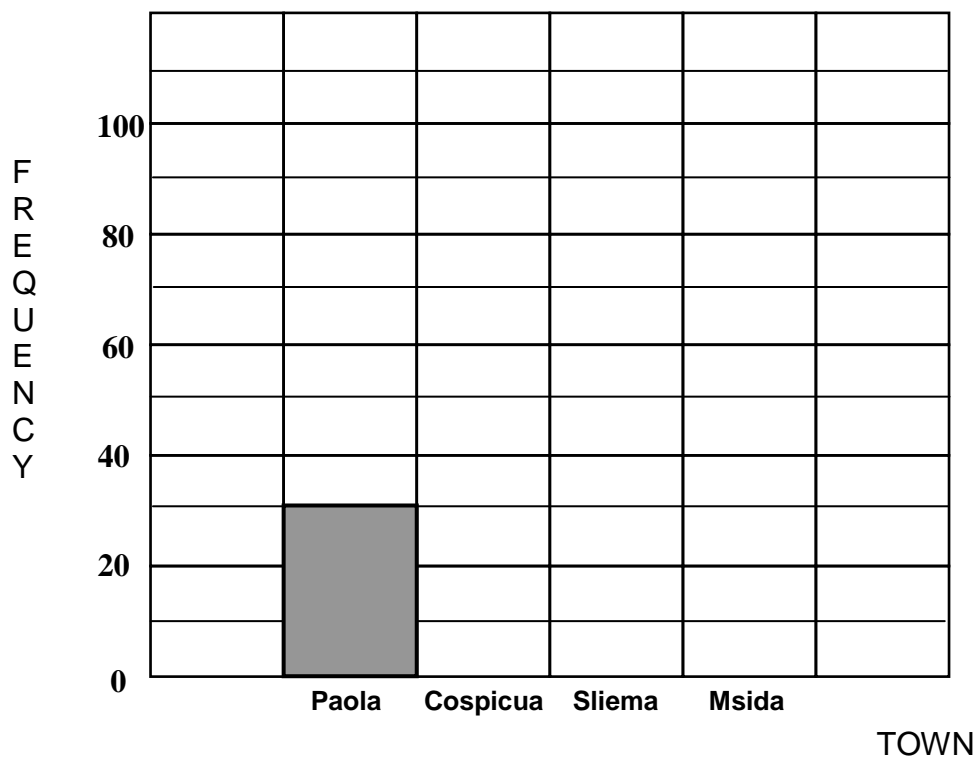
**C**

(8 marks)

12. The table shows the number of cars sold in four towns in 2011.

City	Paola	Cospicua	Sliema	Msida
Number of Cars Sold	30	40	100	50

- (a) Use the table to complete the following bar chart.



- (b) What is the total number of cars?

Answer: \_\_\_\_\_

- (c) What is the ratio of the number of cars sold in Cospicua to the number of cars sold in Sliema? Express the ratio in its simplest form.

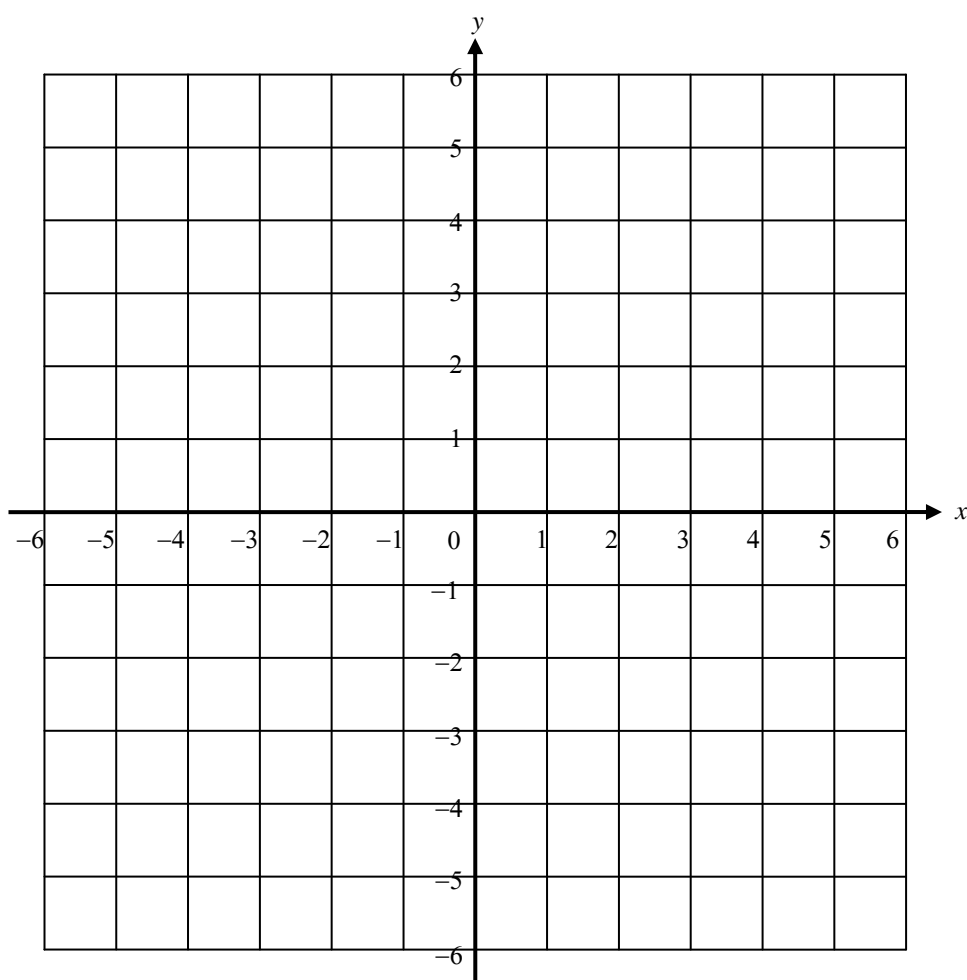
Answer: \_\_\_\_\_

(8 marks)

13. (a) Mark the points  $(-2, -2)$  and  $(2, 1)$  on the grid.
- (b) Draw the line passing through these two points.
- (c) Use your graph to complete the following pairs of coordinates:

$(-6, \underline{\hspace{1cm}})$

$(\underline{\hspace{1cm}}, 4)$

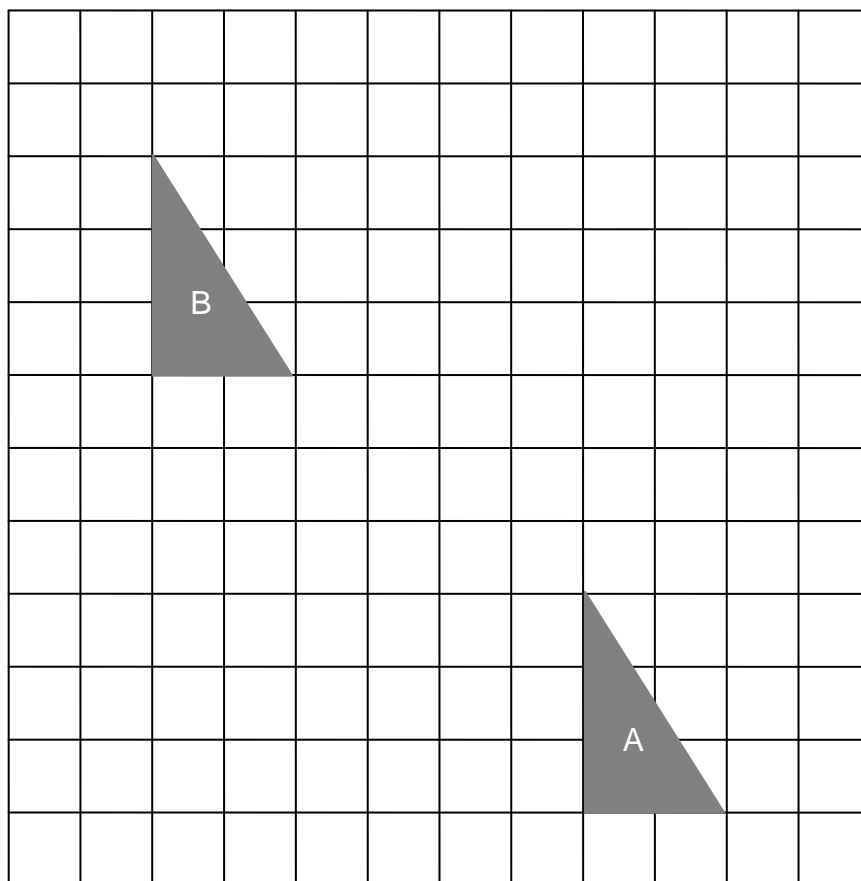


(6 marks)

14. (a) (i) A is translated to B by moving \_\_\_\_\_ units to the left and \_\_\_\_\_ units up.

- (ii) Draw the translation of B given by the following:

Move B 8 units to the right and 2 units down.



- (b) The following are my cousins' ages:

5    12    11    10    26    18    23

- (i) What is their **mean** age?

Answer: \_\_\_\_\_ years

- (ii) What is the **median**?

Answer: \_\_\_\_\_ years

(8 marks)

End of Paper