

FORM 1

MATHEMATICS
Non Calculator Paper

TIME: 30 minutes

Name: _____

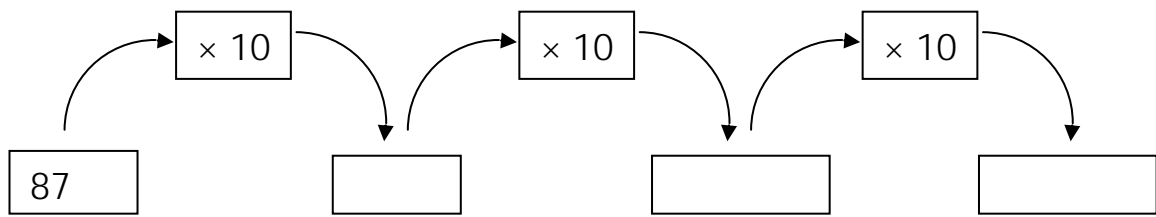
Class: _____

Question	1	2	3	4	5	6	7	8	Total
Mark									

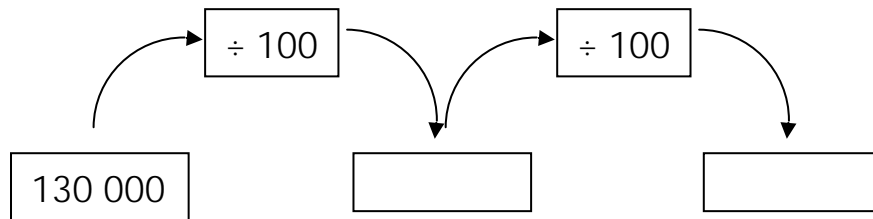
Instructions to Candidates

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

1. a)



b)



(5 marks)

2. a) $4 \times 8 = \square$

b) $5 \times \square = 35$

c) $12 \div 4 = \square$

d) $42 \div \square = 7$

(4 marks)

3. Ramona buys a packet of biscuits at €1.25, a box of chocolates at €2.33 and a bag of sweets at €1.37.

a) How much does she spend?

Answer _____

b) She pays with a 5 Euro note. What change does she get?

Answer _____

(4 marks)

4. The prices for a boat trip are as follows:

Adult €2.50

Child €1.30

a) Complete this formula:

Cost (€) = × number of adults + × number of children.

b) Work out the cost for a trip for a family of 2 adults and 3 children.

Cost for 2 adults € +

Cost for 3 children €

Total Cost €

(4 marks)

5. a) Paul is **1 metre 55 centimetres** tall.
Write this height in **centimetres**.

Answer _____cm

b) A can holds **3.5 litres** of water.
How many **millilitres** of water does this can hold?

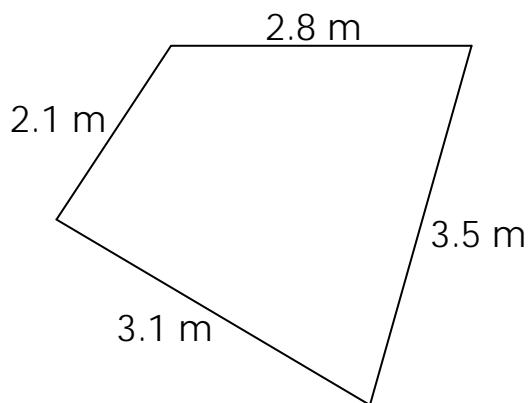
Answer _____ml

c) A box of oranges weighs **7400 grams**.
Write this weight in **kilograms**.

Answer _____kg

(3 marks)

6. Work out the **perimeter** of this field.



Answer _____m

(2 marks)

7. This is the number of goals for 5 football matches:

- Match 1: 5 goals.
Match 2: 4 goals.
Match 3: 2 goals.
Match 4: 1 goal.
Match 5: 3 goals.



Work out the **mean number of goals** in each match.

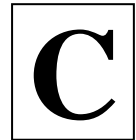
Answer _____
(2 marks)

8. A bag contains an orange, two apples and a pear.
What is the probability that I pick an apple from this fruit bag?



Answer _____

(1 mark)



FORM 1

MATHEMATICS
Main Paper

TIME: 1h 30 min

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

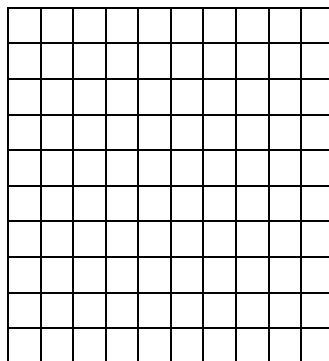
DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

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

1. Use the 10 by 10 square below to complete these sentences:



- a) The 10 by 10 square has _____ small squares.
- b) One half of the shape will have _____ small squares.
- c) One half of the shape is _____.
 (12 per cent, 50%, 75 out of hundred)

(3 marks)

2.

JULY 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>1</u>	<u>2</u>
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>
<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>
<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

a) (i) What day of the week is July 6th?

Answer _____

(ii) How many Saturdays are there in this month?

Answer _____

(iii) What day of the week is August 1st 2011?

Answer _____

b) At **four o'clock in the afternoon** I go to the beach.
Write this time using the 24-hour clock.

Answer _____

(4 marks)

Name : _____

Class : _____

C

3. a) Maria goes to a garden shop to buy some things. Complete this bill for her.

3 flowering pots at €1.44 each. _____

2 bags of fertilizer at €1.23 each. _____

4 packets of seeds at €0.80 each. _____

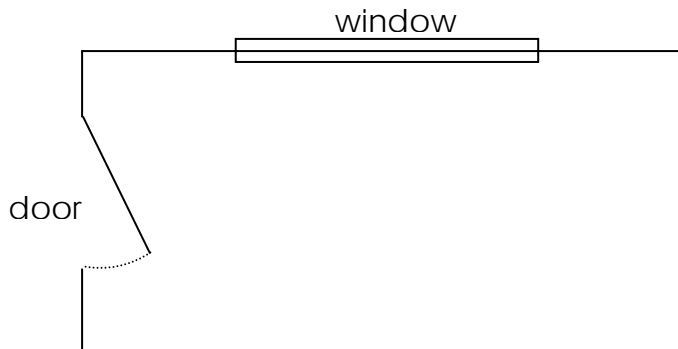
Total cost _____

- b) A group ticket for **five people** costs €11.00. Dylan is one of a group of five friends taking the group ticket. How much does he pay?

Answer _____

(5 marks)

4. Timmy's room is 4 metres long and 2 metres wide. There is a 2 metre window on the longer side and a 1 metre door on the shorter side.



- a) **Measure on the diagram:**

- (i) the length of the room Answer _____ cm
(ii) the width of the room Answer _____ cm
(iii) the width of the window Answer _____ cm
(iv) the width of the door Answer _____ cm

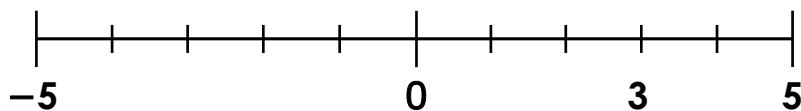
- b) What **scale** is being used to draw the plan of Timmy's room?

Answer _____ cm to _____ m

(6 marks)

5. a) Put these numbers on the number line below. The first one is already done for you.

3; **-1 ;** **-4 ;** **2.**



- b) These are the temperatures in Warsaw and Helsinki.

Warsaw **-3°C**, Helsinki **-5°C**

Which city has the colder temperature?

Answer _____

(4 marks)

6. a) Fill in the missing numbers in this table:

Number	Nearest 1000	Nearest 100	Nearest 10
1836	2000		
2153		2200	
2719			2720

- b) Diane goes to the grocer and gets this bill:

€1.98
 €2.12
 €4.82
€11.05
€19.97

What euro note/notes does she need to pay this bill?

Answer _____

(7 marks)

Name : _____

Class : _____

C

7. Work out:

a) $(4 + 2) \times (2 + 7)$

Answer _____

b) $2.5 + 3.2 \times 1.5$

Answer _____

c) $8 \div (1.3 + 2.7)$

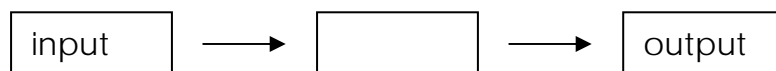
Answer _____

(6 marks)

8. a) Complete the table of inputs and outputs for the number machine.

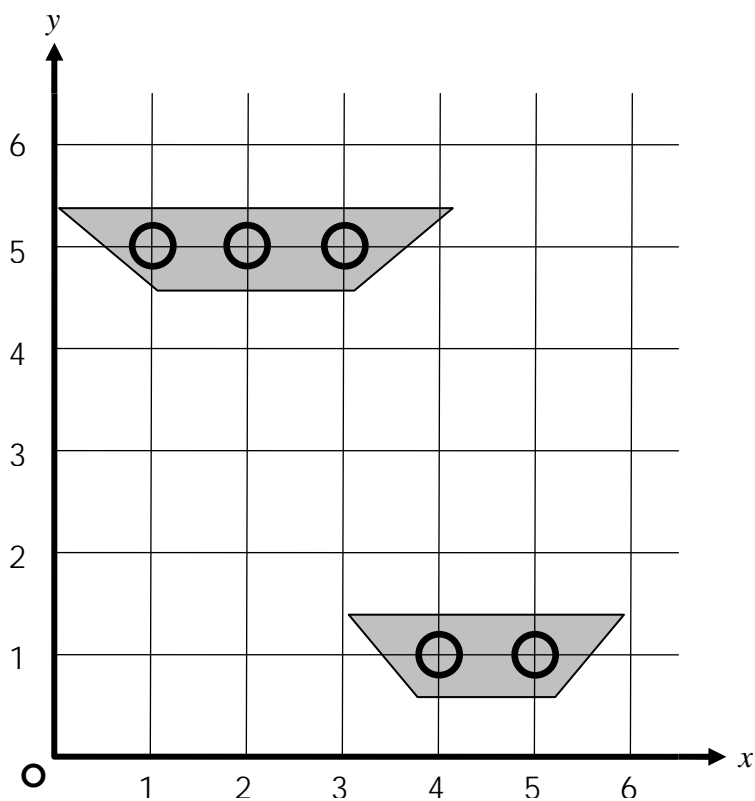
Input	5	7	8	11	14
Output	3	5	6		

b) Fill in the space in this number machine.



(3 marks)

9. Tony and Maria are playing the battle-ship game.
This is Tony's sheet.



- a) Maria chooses three points to try to hit Tony's ships.
These are $(1,1)$, $(5,3)$, $(3,4)$.

Mark these points on Tony's grid.

- b) Does Maria hit any of Tony's ships?

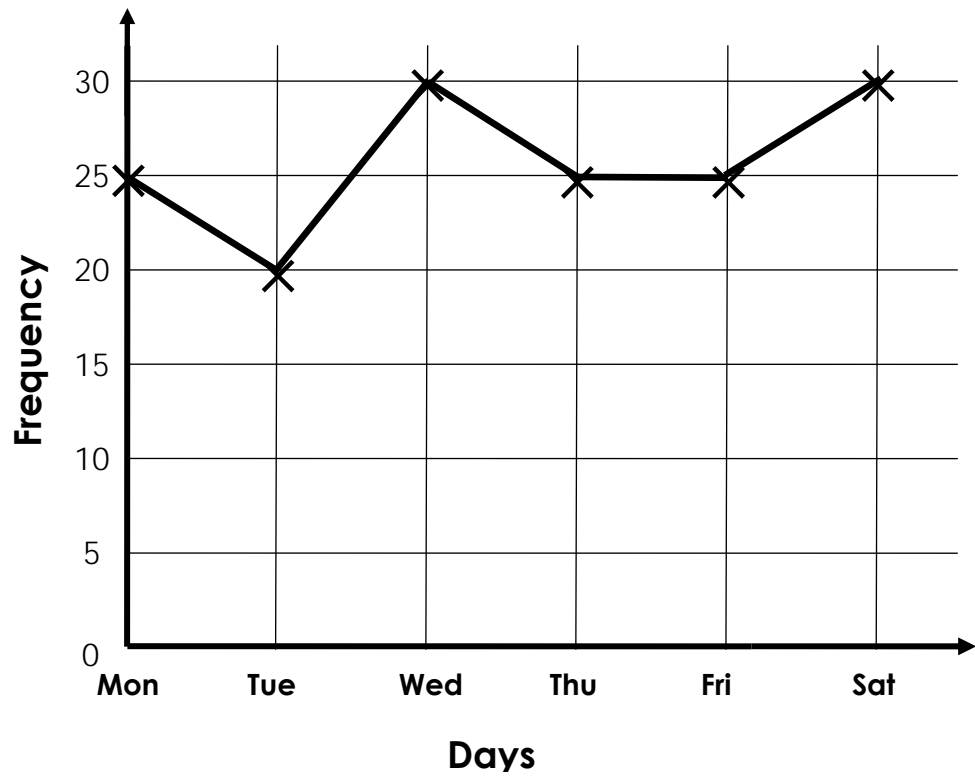
Answer _____

- c) Mark on the grid two points that will hit one of Tony's two ships.

Answer _____

(6 marks)

10. Alfred has a plant shop and he keeps a record of how many plants he sells each day. This is his record sheet for a particular week.

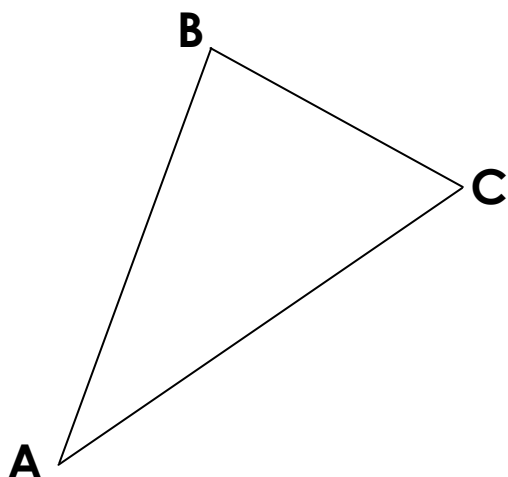


- a) Alfred sells most plants on _____ and _____.
- b) Alfred sells the least plants on _____.
- c) How many plants does he sell **in all** during this week?

Answer _____

(4 marks)

11. a) Measure the angles of the triangle **ABC**.



(i) angle **A** _____°

(ii) angle **B** _____°

(iii) angle **C** _____°

(iv) Triangle **ABC** is _____ triangle.
(a scalene, an isosceles, an equilateral)

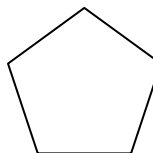
b) What is the **order of rotational symmetry** of these shapes?

(i) a square:



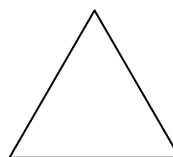
order _____

(ii) a regular pentagon:



order _____

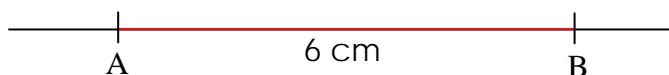
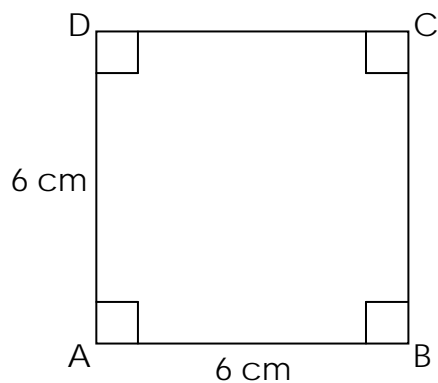
(iii) an equilateral triangle:



order _____

(7 marks)

12. a) Use your ruler and your set square or protractor to draw a square whose sides are 6 cm each. Line AB is done for you.

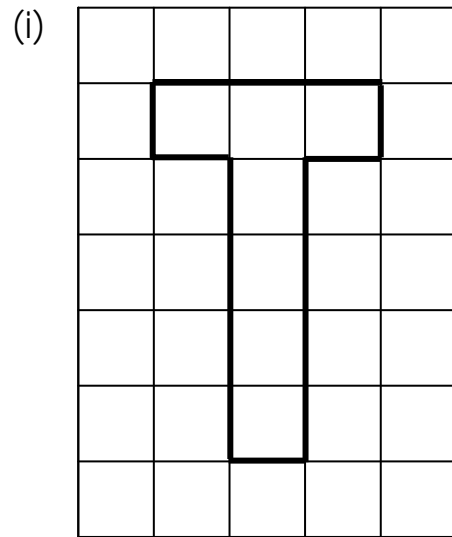


- b) Fill in the missing LOGO commands for the turtle to draw a square.

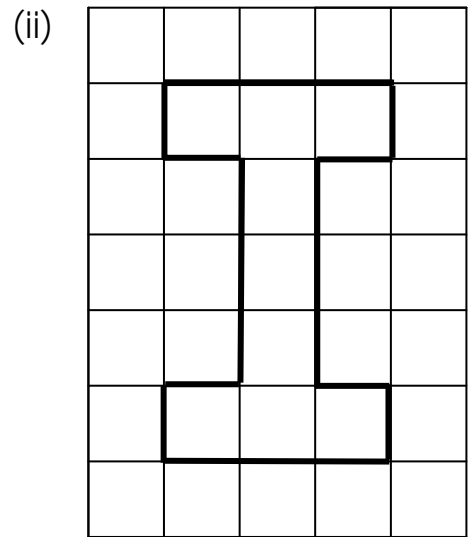
PD REPEAT 4 [____ 50 RT ____]

(5 marks)

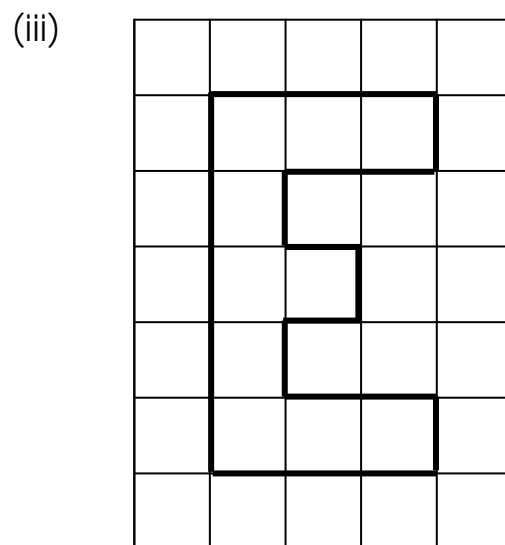
13. a) What is the area of each of these letters?
(Each square represents 1cm^2)



Area _____ cm^2

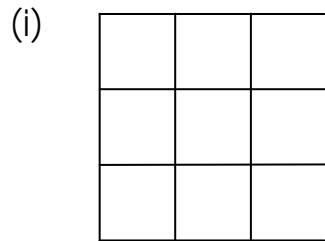


Area _____ cm^2

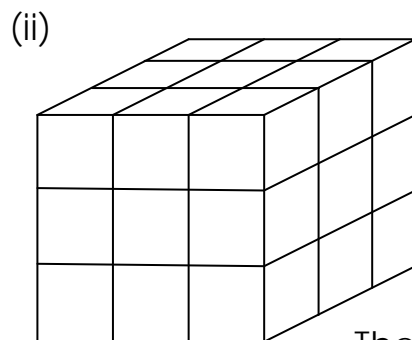


Area _____ cm^2

13. b) Fill in the units for these measurements.
 (Choose from m, cm, cm², cm³.)
 Each square has a side of 1cm.

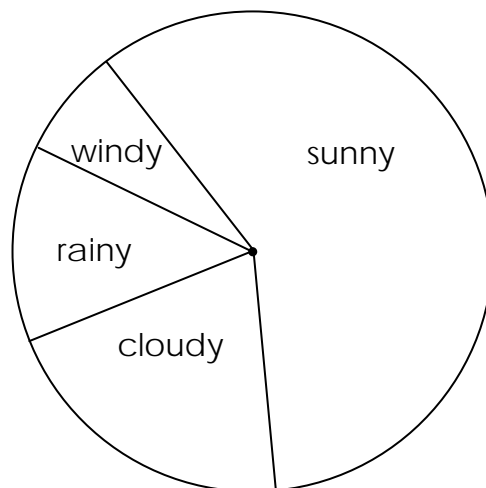


The area of this square is 9 _____



The volume of this cube is 27 _____
 (5 marks)

14. a) The pie chart shows the type of weather we had last March.



Choose **True** or **False** near each sentence.

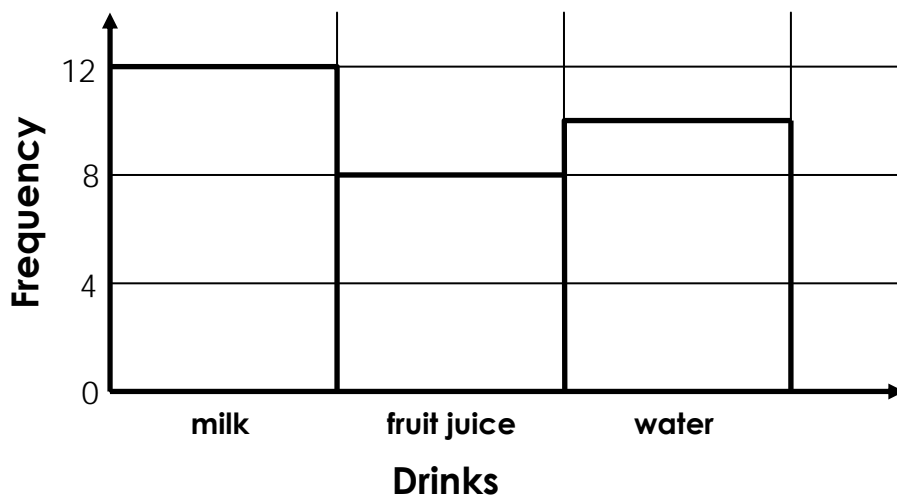
True **False**

- (i) More than 15 days were sunny last March.

- (ii) We had rain everyday.

- (iii) The weather was mostly windy in March.

14. b) This bar chart shows the favourite drinks of a class of students.

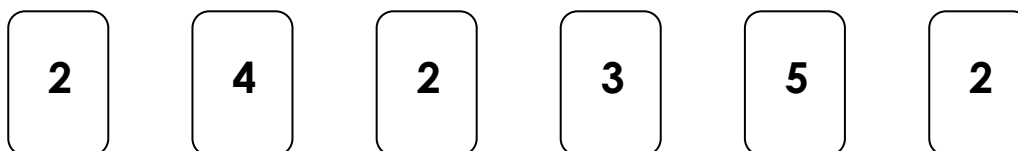


- (i) Students like to drink _____ most.
- (ii) How many students like water?

Answer _____

(5 marks)

15. Brandon closes his eyes and picks a card from the following:



- a) What is the probability that he picks:
- (i) a 2? Answer _____
- (ii) a 3? Answer _____
- (iii) a multiple of 2? Answer _____
- (iv) an odd number? Answer _____
- b) It is (certain, likely, unlikely, impossible) that Brandon picks a 6.

(5 marks)

END OF PAPER