



**FORM 1**

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

**TIME: 30 minutes**

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

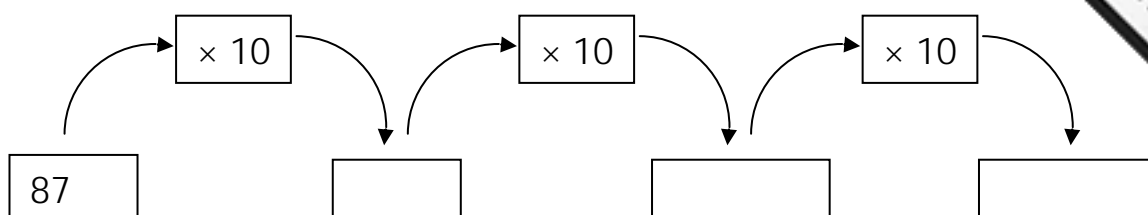
**Class:** \_\_\_\_\_

Question	1	2	3	4	5	6	7	8	Total
Mark									

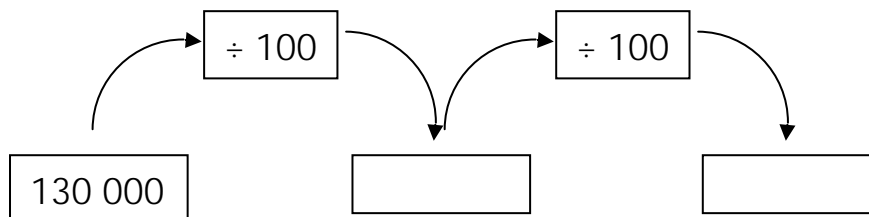
### Instructions to Candidates

- **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?

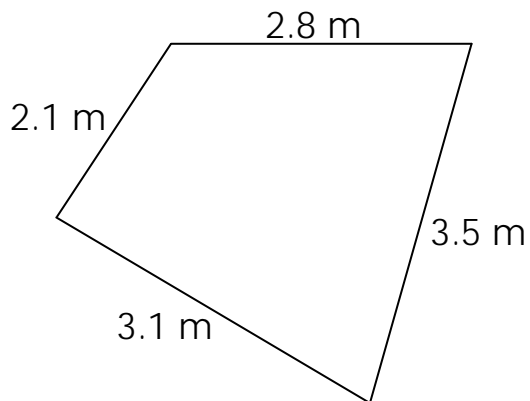
Answer \_\_\_\_\_ml

- 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** **TIME: 1h 30 min**  
**Main Paper**

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

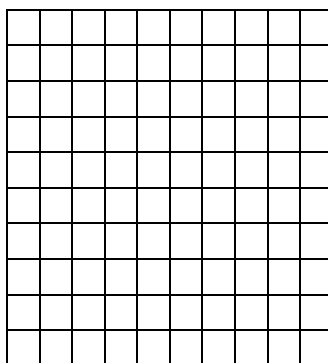
**DO NOT WRITE ABOVE THIS LINE**

**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 1<sup>st</sup> 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 : \_\_\_\_\_

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. \_\_\_\_\_

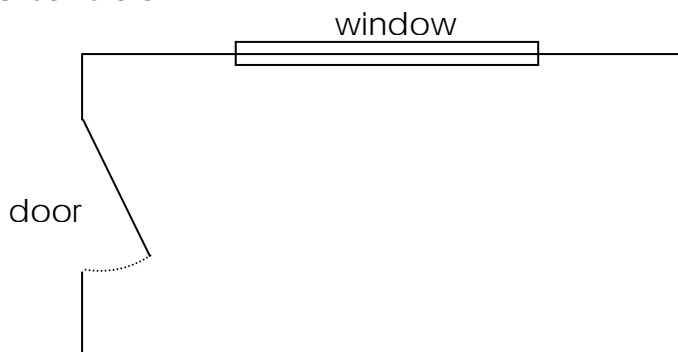
**Total cost** \_\_\_\_\_

- 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

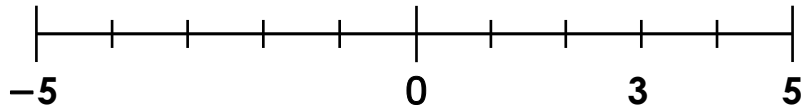
- b) What **scale** is being used to draw the plan of Timmy's room?

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
<b>1836</b>	2000		
<b>2153</b>		2200	
<b>2719</b>			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 : \_\_\_\_\_

7. Work out:

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

Answer \_\_\_\_\_

b)  $2.5 + 3.2 \times 1.5$

Answer \_\_\_\_\_

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

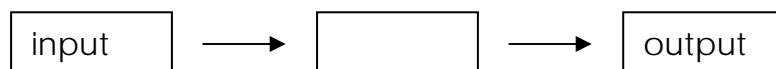
Answer \_\_\_\_\_

(6 marks)

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

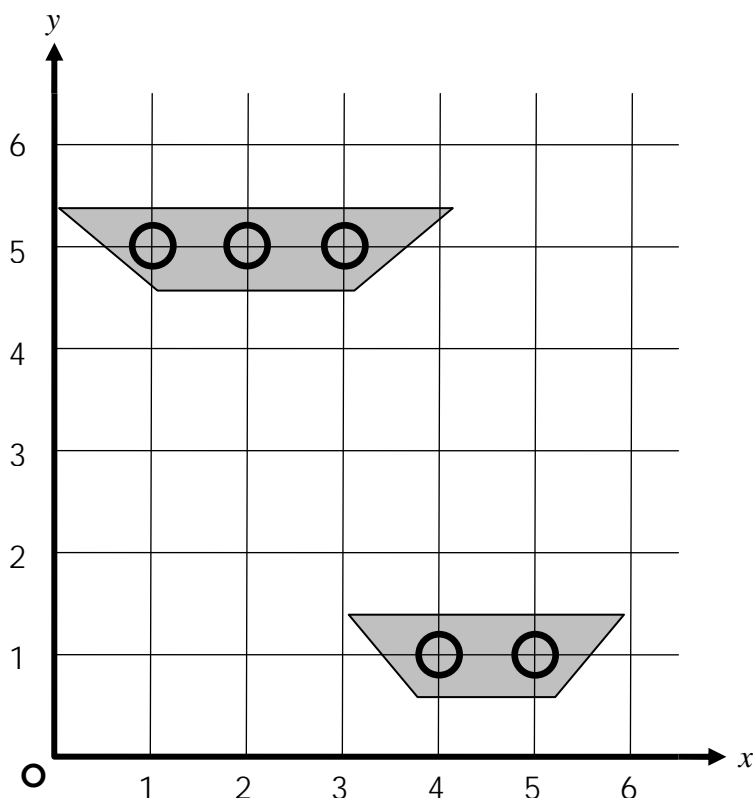
<b>Input</b>	5	7	8	11	14
<b>Output</b>	3	5	6		

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?

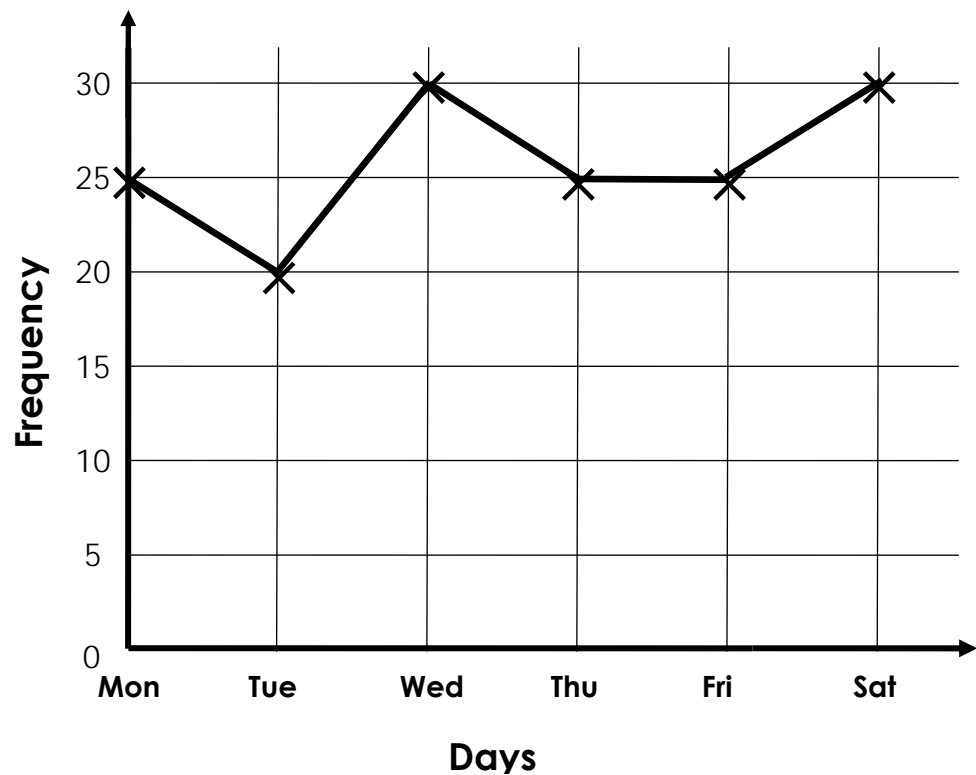
Answer \_\_\_\_\_

- 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.

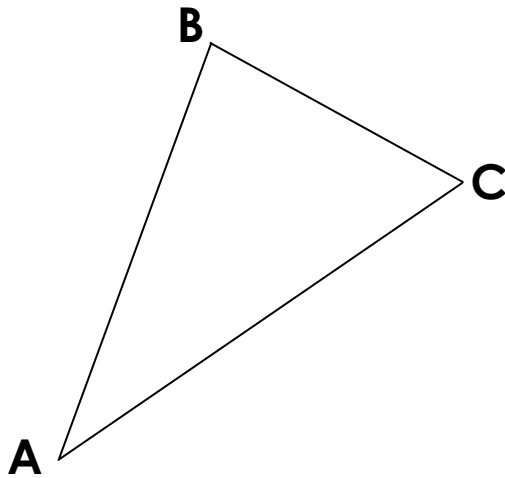


- Alfred sells most plants on \_\_\_\_\_ and \_\_\_\_\_.
- Alfred sells the least plants on \_\_\_\_\_.
- How many plants does he sell **in all** during this week?

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)

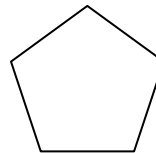
- b) What is the **order of rotational symmetry** of these shapes?

- (i) a square:



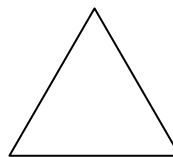
order \_\_\_\_\_

- (ii) a regular pentagon:



order \_\_\_\_\_

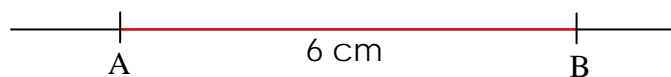
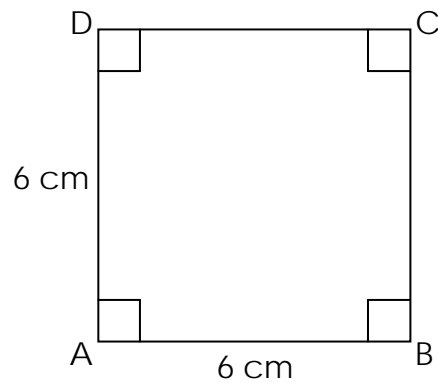
- (iii) an equilateral triangle:



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.

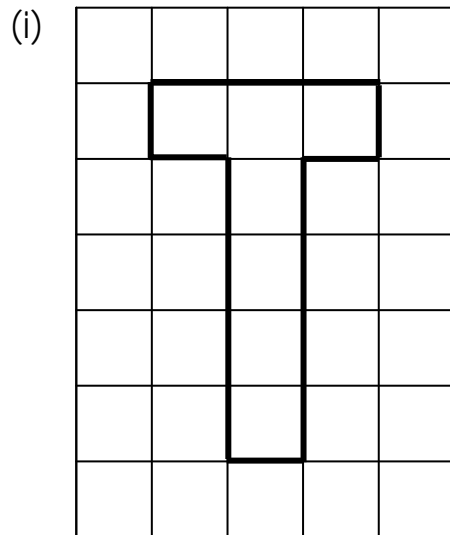


- b) Fill in the missing LOGO commands for the turtle to draw a square.

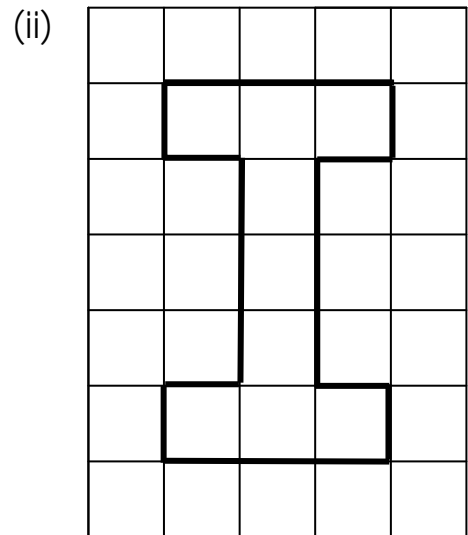
PD REPEAT 4 [ \_\_\_\_ 50 RT \_\_\_\_ ]

(5 marks)

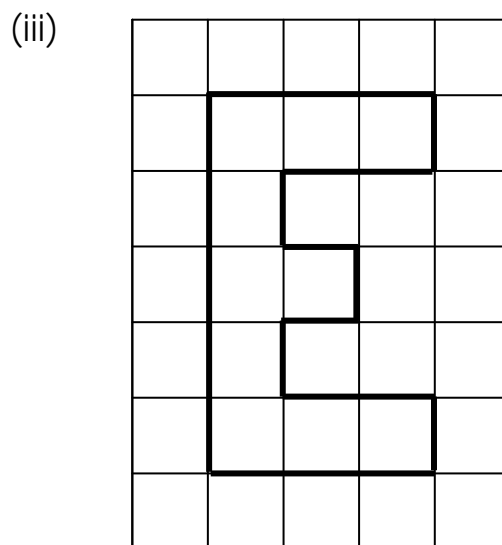
13. a) What is the area of each of these letters?  
(Each square represents  $1\text{cm}^2$ )



Area \_\_\_\_\_  $\text{cm}^2$



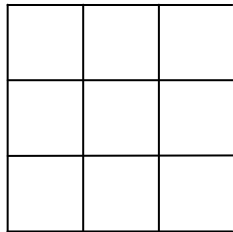
Area \_\_\_\_\_  $\text{cm}^2$



Area \_\_\_\_\_  $\text{cm}^2$

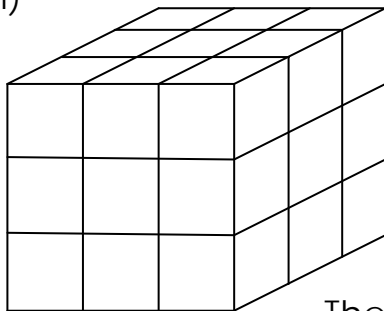
13. b) Fill in the units for these measurements.  
(Choose from m, cm,  $\text{cm}^2$ ,  $\text{cm}^3$ .)  
Each square has a side of 1cm.

(i)



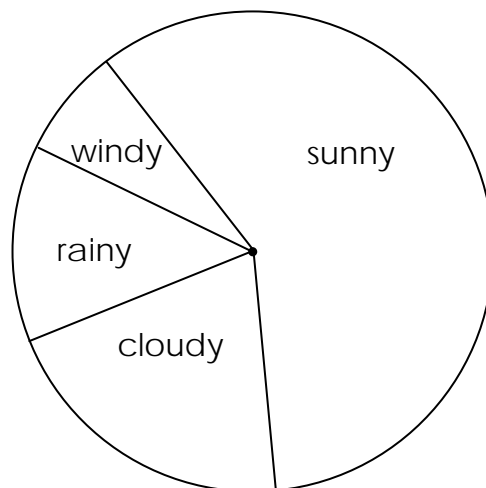
The area of this square is 9 \_\_\_\_\_

(ii)



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.

☐ ☐

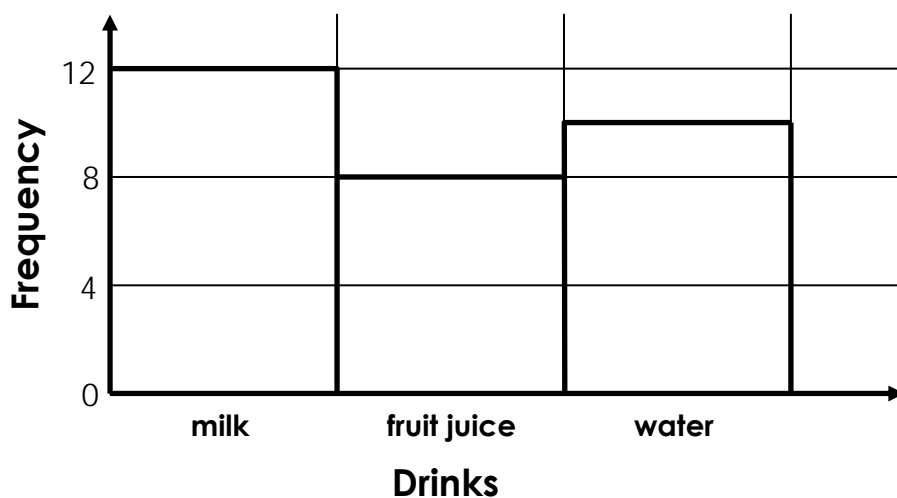
(ii) We had rain everyday.

☐ ☐

(iii) The weather was mostly windy in March.

☐ ☐

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

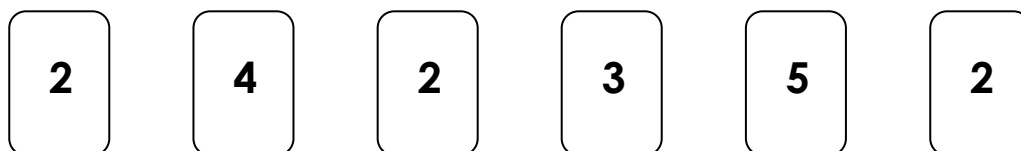


- (i) Students like to drink \_\_\_\_\_ most.
- (ii) How many students like water?

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**