



Annual Examinations for Middle Schools 2022

YEAR 8

MATHEMATICS

TIME: 1h 30min

Main Paper

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

DO NOT WRITE ABOVE THIS LINE

Name: _____ Class: _____

Answer ALL questions.

Calculators are allowed. All necessary working must be shown.

1. a) Write the number **7 530** in words.

- b) The place value of 4 in the number **4 956** is _____.

- c) **Underline** the correct answer in the brackets.

i) 17 is a multiple of 3. (True, False)

ii) 2 and 3 are both factors of 12. (True, False)

iii) 36 and 100 are both square numbers. (True, False)

iv) One-half changed into a decimal is 0.2. (True, False)

(6 marks)

2. a) The price of a bike is €1400. It is sold at a discount of 30%.

i) Calculate the discount given.

Ans: €_____

ii) Work out the selling price of the racer.

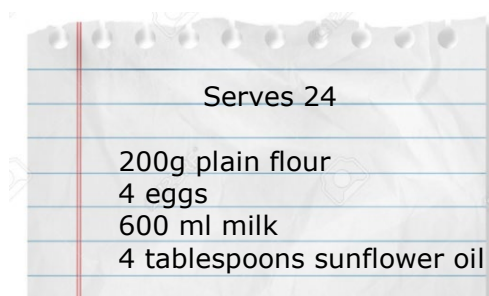
Ans: €_____

b) Change 55% to a fraction in its lowest terms.

Ans: _____

(5 marks)

3. Gino is making pancakes. The recipe below makes 24 pancakes.



Gino wants to make 12 pancakes.

a) Write down the amount needed to make 12 pancakes:

_____ g plain flour

_____ eggs

_____ ml milk

_____ tablespoons sunflower oil

b) How much milk is needed to make 36 pancakes?

Ans: _____ ml

(6 marks)

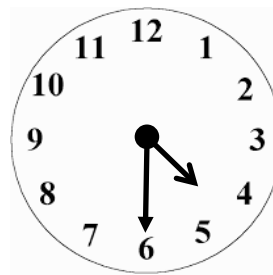
4. a) Write the time in **words**.

i)



ten minutes past _____

ii)



_____ past four

b) The table below represents the departures from Malta International Airport.

Munich	Toulouse	London	Barcelona	Frankfurt	Rome	Dublin
09:25	11:35	12:45	14:15	16:25	19:25	21:00

i) The planes to _____ and _____ leave in the morning.

ii) The plane to London leaves at 12:45. Write this in words.

iii) The plane to Barcelona has been delayed by one hour. The new departure time is _____.

iv) The plane to Rome departs exactly _____ hours after that to Frankfurt.

v) The plane to _____ leaves at twenty-five minutes past four in the afternoon.

(8 marks)

5. Mario goes to a stationery. He buys the items below.

5 biros @ €1.70 each
2 glue sticks @ €1.99 each
1 ruler @ €2.99

- a) Work out the cost of the 5 biros.

Ans: €_____

- b) Work out the cost of the 2 glue sticks.

Ans: €_____

- c) Calculate Mario's total bill.

Ans: €_____

- d) Mario pays with a €20 note. How much change does he get?

Ans: €_____

(7 marks)

6. a) Fill in the blanks with the following words:

Square	Rectangle	Parallelogram	Trapezium
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- i) I have no equal sides and no equal angles.

I am a _____.

- ii) My opposite sides are equal and parallel, and all my angles are 90° .

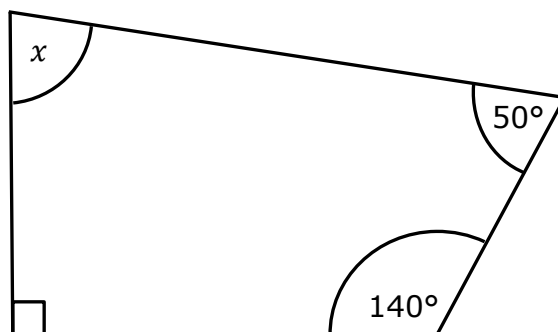
I am a _____.

- iii) My opposite sides are equal and parallel, and my opposite angles are equal. I am a _____.

- iv) I have four equal sides and four equal angles.

I am a _____.

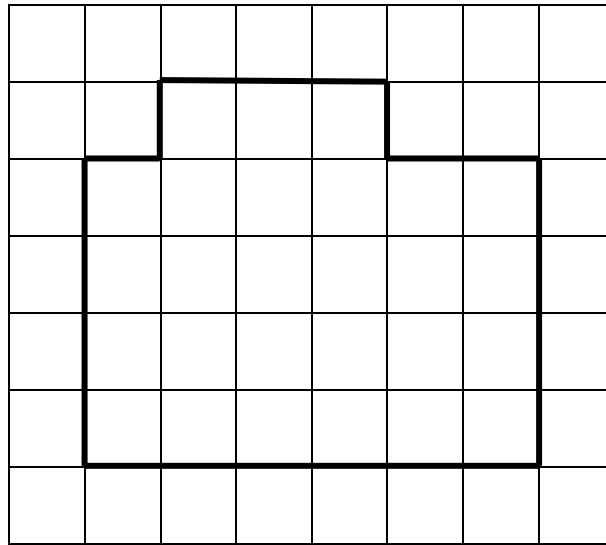
- b) Work out the missing angle marked x .



Ans: $x =$ _____[°]

(6 marks)

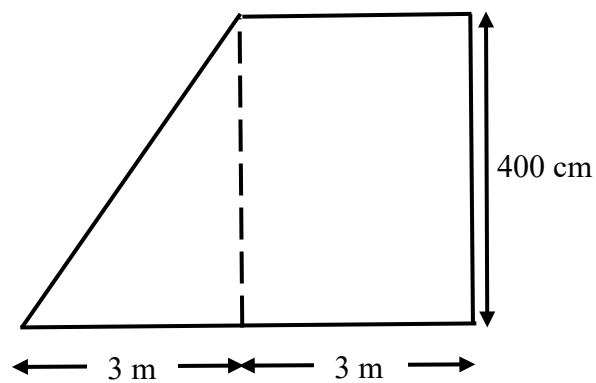
- 7.



Work out the **area** of Kate's garden.

Ans: _____m²

- b) The diagram below represents David's garden.



- i) Change 400 cm into m.

Ans: _____m

ii) Calculate the area of the triangular part of the garden.

Ans: _____m²

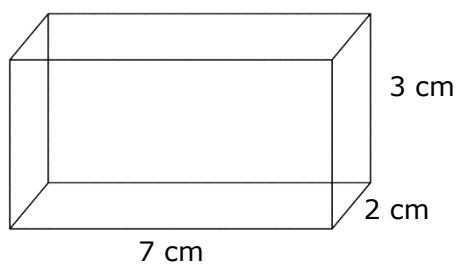
iii) Work out the area of the whole garden.

Ans: _____m²

iv) Is David's garden bigger than Kate's? Give a reason.

_____because_____

c) Calculate the volume of the shape.



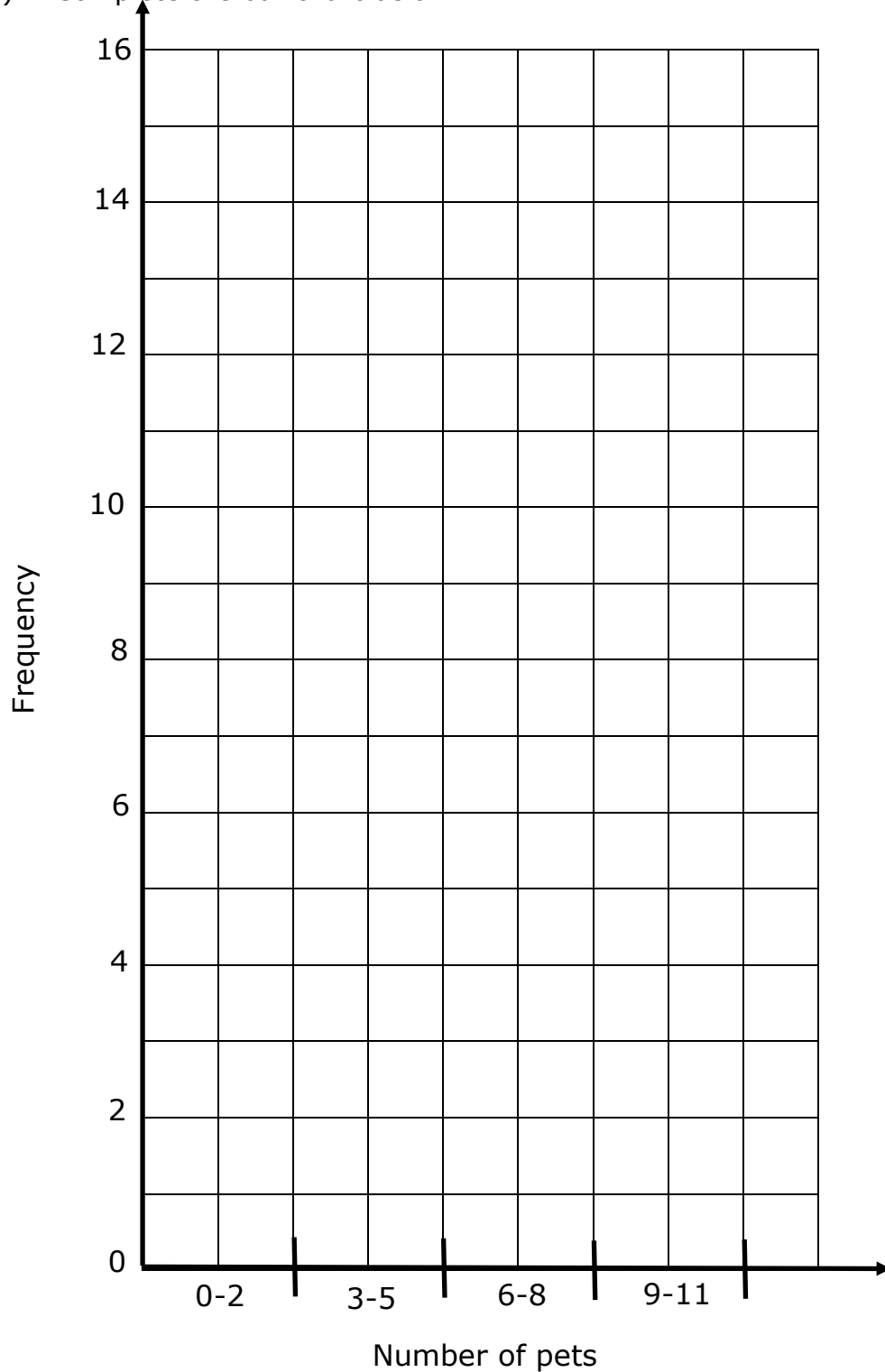
Ans: _____ cm³

(10 marks)

8. A group of students were asked the number of pets they have at home.
Their answers are shown in the frequency table below.

Number of pets	0-2	3-5	6-8	9-11
Frequency	15	10	4	1

a) Complete the bar chart below.



b) How many students were there in all?

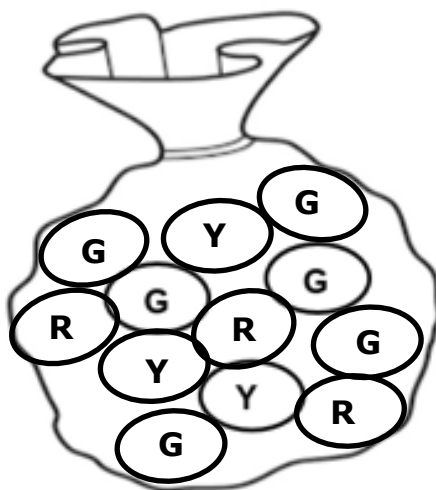
Ans: _____ students

c) How many students have more than 5 pets?

Ans: _____ students

(6 marks)

9. A bag contains green (G), yellow (Y) and red (R) sweets.



a) How many sweets are there in the bag?

Ans: _____ sweets

b) What is the probability of choosing a green sweet?

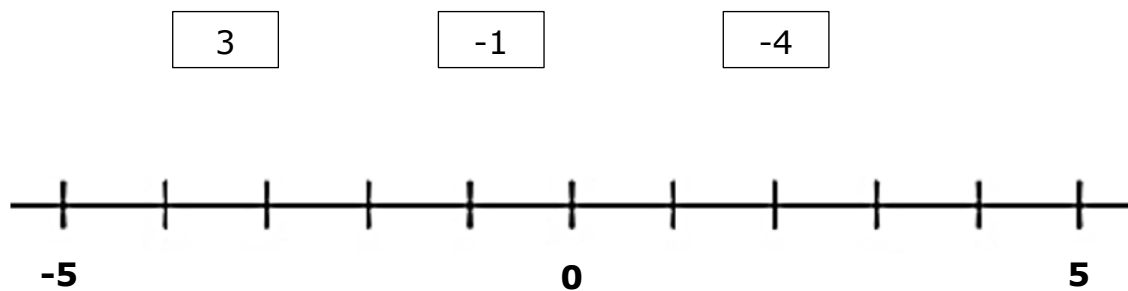
Ans: _____

c) What is the probability of choosing an orange sweet?

Ans: _____

(4 marks)

10. a) Place the numbers below correctly on the number line.



- b) Jamie is in a car park at level -2. He needs to go up to a toy shop on level 3. How many floors must he go up?

Ans: _____ floors

(5 marks)

11. a) Find the value of $5s + 2t - 3u$ when $s = 4$, $t = 1$ and $u = 3$.

Ans: _____

- b) Fill in the empty boxes with the correct value.

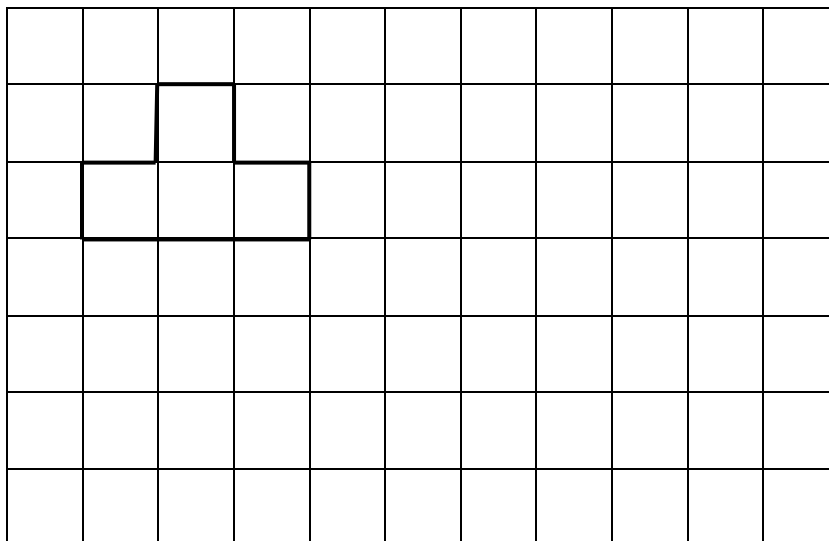
i) + 7 = 15

ii) × 3 = 36

iii) - 20 = 50

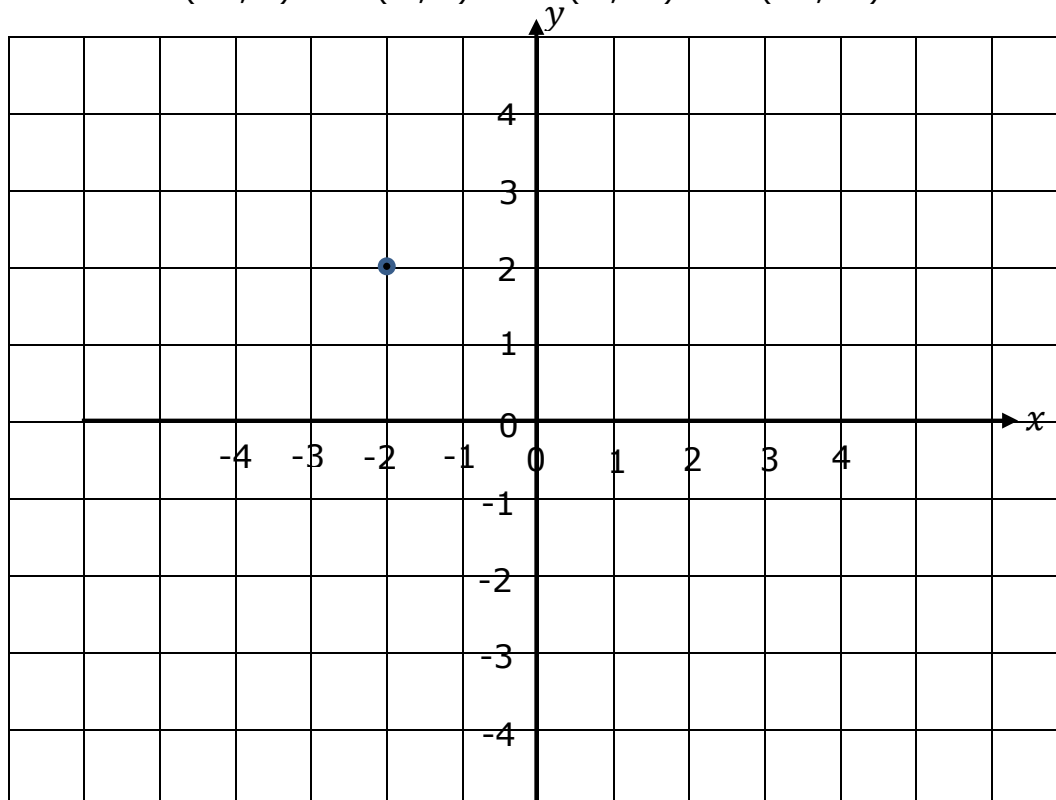
(6 marks)

12. a) Move the shape 5 squares to the right and 2 down.



- b) Plot these points on the grid below and join them to form a shape.
The first one is done for you.

$(-2, 2)$ $(2, 2)$ $(2, -2)$ $(-2, -2)$



- c) Write the coordinates of one point inside the shape (____, ____)

(6 marks)

End of Main Paper

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