



Annual Examinations for Middle Schools 2025

YEAR 7

**MATHEMATICS
Main Paper**

TIME: 1h 40min

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calc	Total
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 three hundred and forty seven thousand two hundred and four in figures.

- b) Write down all the factors of 36.

- c) Work out the least common multiple of 10 and 12.

Ans: _____

- d) Write two prime numbers, one which is even and one which is odd.

Even prime number _____

Odd prime number _____

(7 marks)

2. a) i) Write these in order, starting from the smallest.

$2\frac{1}{4}$

$\frac{3}{4}$

3

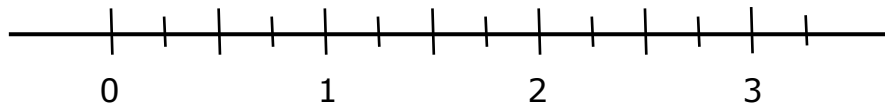
1.5

_____ , _____ , _____ , _____

- ii) Use arrows to show the position of the numbers on the number line below.

$\frac{3}{4}$

1.5



- b) i) Change 45% to a fraction in its lowest terms.

Ans: _____

- ii) Change $\frac{2}{5}$ to a percentage.

Ans: _____

(6 marks)

-
3. Nick records the temperature in Malta for 5 days during the month of May.

28°C

27°C

31°C

28°C

29°C

- a) Work out the mean temperature.

Ans: _____

- b) Work out the median temperature.

Ans: _____

- c) Work out the range.

Ans: _____

(6 marks)

4. John needs an electrician to fix his faulty air conditioner. The electrician charges a fixed fee of €50 plus an additional fee of €20 per hour. Moreover, he changed some faulty parts costing €127.

a) The electrician spent $1\frac{1}{2}$ hours fixing the air conditioner.

Calculate the total amount John must pay.

Ans: _____

- b) John gets a discount of 15% on the total bill.
Work out the discount he receives.

Ans: _____

(4 marks)

5. Charlene is paid €480 for working 32 hours in one week.

a) Calculate how much she is paid for one hour.

Ans: _____

- b) During another week, she worked for 44 hours.
Work out her pay for that week?

Ans: _____

(4 marks)

6. Jack starts training at 5:30 p.m.
He trains for 135 minutes.
At what time does he finish the training?

Ans: _____

(3 marks)

7. Sophie makes scented candles and sells them in packs of 28.
During this month she made 980 candles.
a) Work out the number of full packs that Sophie can sell during this month.

Ans: _____

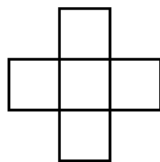
- b) During this month Sophie managed to sell 31 packs at €4.75 each. How much money did Sophie get from this sale?

Ans: _____

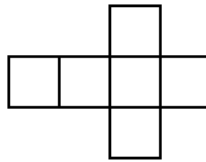
- c) The remaining packs are sold at €3.50 each. What is the total income from all the packs?

Ans: _____
(7 marks)

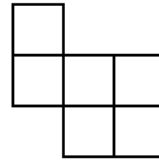
8. a) One of the diagrams below is a possible net for a closed cube.



A



B



C

The correct net is _____.

- b) The side of a cube is 4.5 cm. Find the volume of the cube in cm^3 correct to 2 decimal places.

Ans: _____

- c) Fill in the blanks with LOGO commands to draw a rectangle of side 40 by 75.

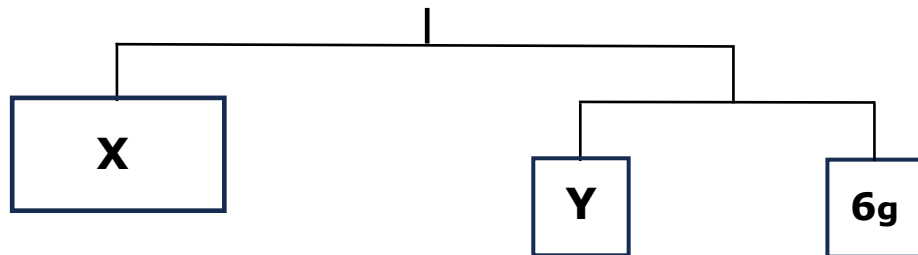
PD FD 40 RT _____ FD _____ RT 90 FD _____ RT 90 FD 75

(7 marks)

9. a) Simplify: $7a + 3c - 4a + 5c$

Ans: _____

b) The diagram below shows a balanced scale with masses in grams (g).



Fill in the spaces below.

i) $Y = \text{_____ g}$

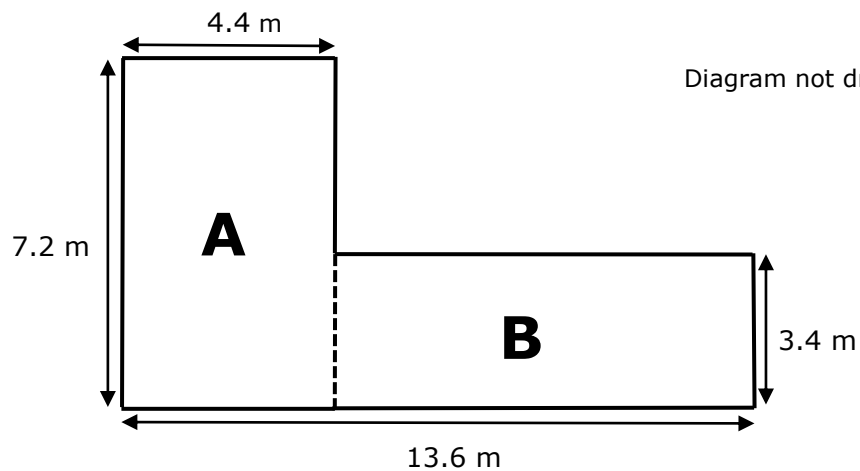
ii) $X = \text{_____ g}$

c) Solve: $4y - 3 = 5$

Ans: _____

(5 marks)

10. The diagram shows a shape made up of two rectangles.



a) i) The width of rectangle B is 3.4 m. Its length is _____ m.

ii) Work out the area of rectangle B.

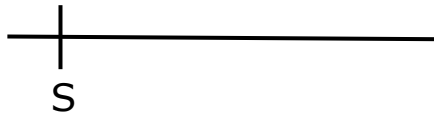
Ans: _____

b) Calculate the total area of the shape.

Ans: _____

(5 marks)

11. a) i) At point S, draw and mark an angle of 265° .



- ii) Underline the correct answer.

The angle at point S is (right, obtuse, acute, reflex).

- b) Find the missing angles a , b and c , giving reasons for your answers.

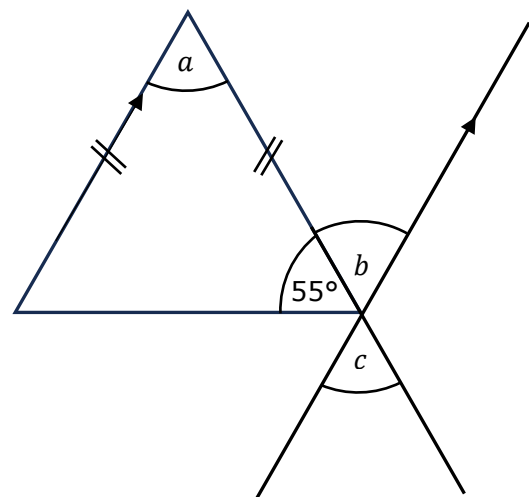


Diagram not drawn to scale

$$a = \underline{\hspace{2cm}}^{\circ}$$

Reason: _____

$$b = \underline{\hspace{2cm}} \circ$$

Reason: _____

$C =$ _____ $\circ$

Reason: _____

(9 marks)

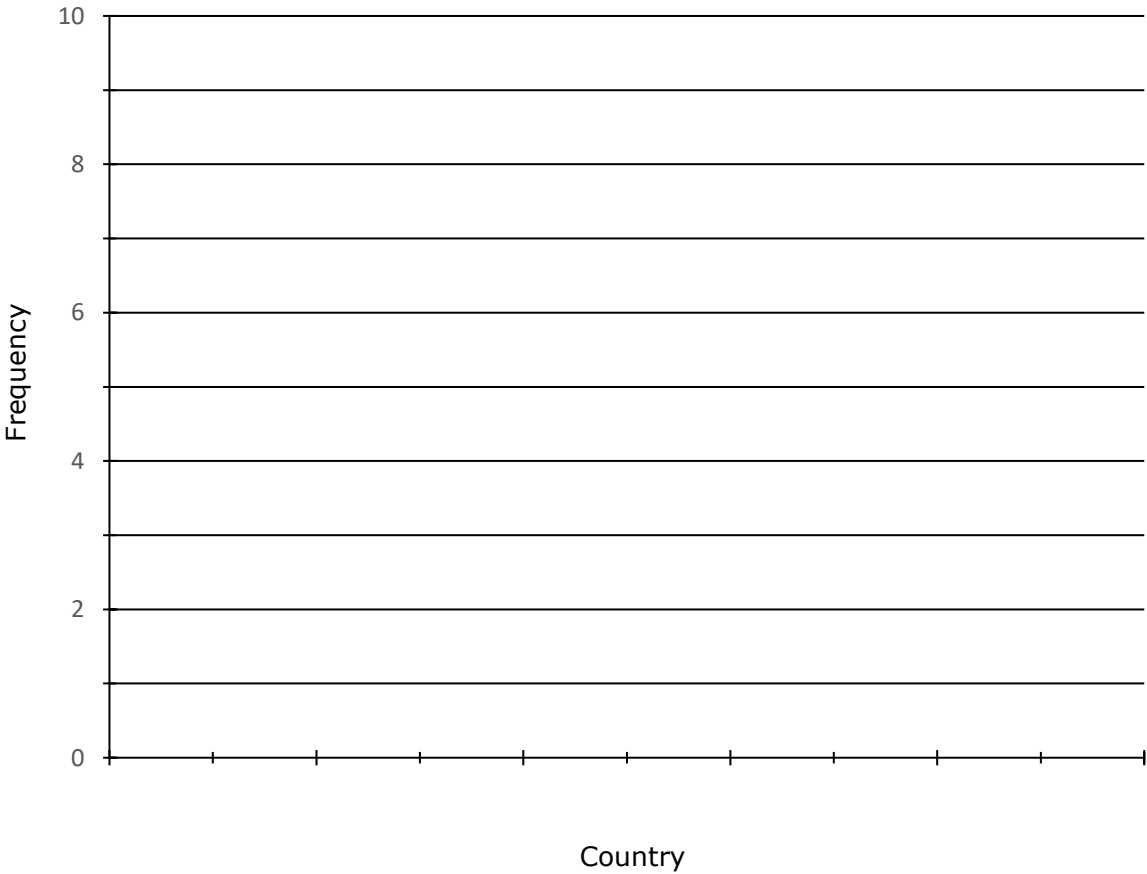
12. Ryan asks his friends which country they think will win the FIFA Euro Cup 2028. He collected the data below.

Italy	England	Spain	Italy	France	England
Germany	France	England	Germany	Spain	England
England	France	Italy	Spain	England	Spain
Germany	England	England	Germany	Spain	Germany
England	Spain	Spain	France	England	France

a) Fill in the frequency table below.

Country	England	France	Germany	Italy	Spain
Frequency					

b) Draw and label a bar chart to represent this information.



c) What fraction chose Spain?

Ans: _____

(7 marks)

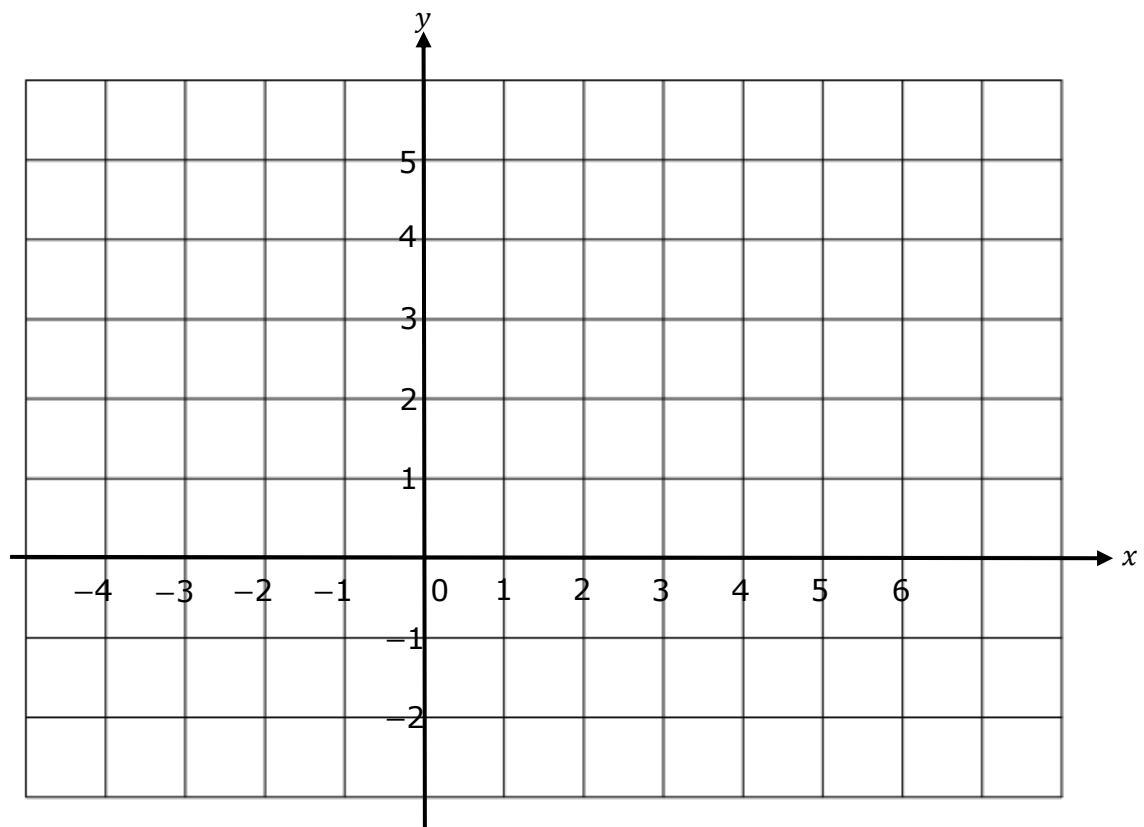
13. Consider the word CARTOONS.

- a) The probability of choosing the letter C is (certain, unlikely, very likely, very unlikely).
- b) i) The probability of choosing the letter S is _____.
- ii) The probability of choosing the letter O is _____.
- iii) The probability of choosing the letter F is _____.
- iv) The probability of **not** choosing the letter A is _____.

(5 marks)

14. a) On the grid below, plot and label the following points:

P(-2 , 3) Q(4 , 3), R(4 , -1), S(-2 , -1)



- b) Join P to Q, Q to R, R to S and S to P.
The shape PQRS is a _____.
- c) Draw the lines of symmetry of shape PQRS.
- d) The lines of symmetry meet at point A.
The co-ordinates of point A are (____,____).

(5 marks)

End of Main Paper