



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	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 8 476 020 in words.

- b) i) For the number 98.467, use arrows to match:

The value of the digit 8 is	→	tens
The value of the digit 4 is	→	units
The value of the digit 9 is		hundredths
The value of the digit 6 is		tenths

- ii) Round the number 98.476 to two decimal places.

Ans: _____

(5 marks)

2. Joanne has a bar of chocolate. It is divided into 28 equal squares.

She eats $\frac{2}{7}$ of it and gives four squares to Liam.

- a) How many squares has she left?

Ans: _____

- b) During the lunch break, Joanne eats $\frac{3}{4}$ of the remainder and gives two squares to Noel.

How many squares has Joanne left at the end of the break?

Ans: _____
(6 marks)

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

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

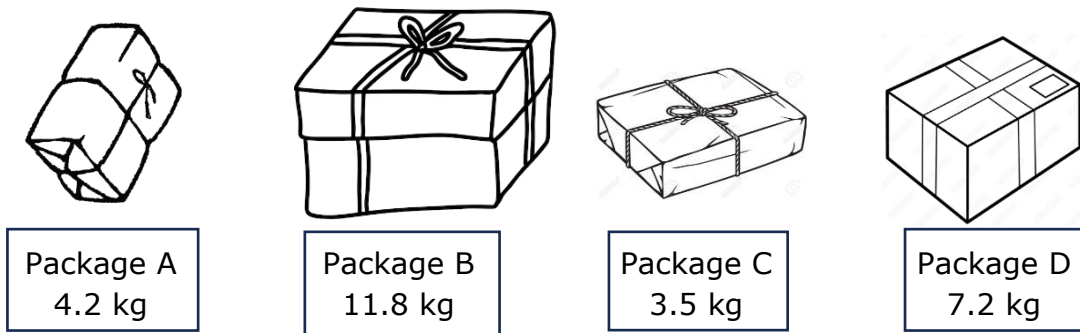
Ans: _____

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

Ans: _____

(4 marks)

4. Grandma wants to send presents to her nieces and nephews in England. The diagram below shows the mass of each package.



The cost of posting packages is given in the table below.

Mass	Cost
less than 5 kg	€55.04
from 5 kg to less than 10 kg	€60.44
from 10 kg to less than 15 kg	€66.48
from 15 kg to less than 20 kg	€72.40

- a) Which two of Grandma's packages have the same postage cost?

Ans: _____ and _____

- b) i) Calculate the total cost for sending all the four packages to England.

Ans: _____

- ii) A security charge of 3% on the total cost must be paid.
Work out the security charge.

Ans: _____

- iii) Work out the total price that Grandma must pay.

Ans: _____

(6 marks)

5. The diagram shows the lengths in cm of the sides of a quadrilateral.

- a) Work out the perimeter of the shape in terms of x .
Simplify your answer.

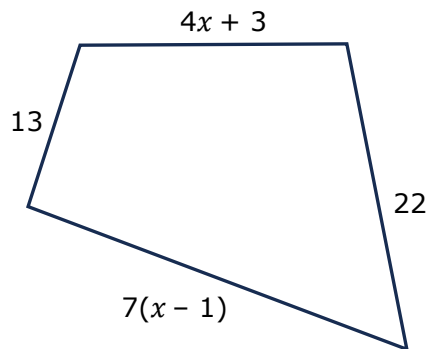


Diagram not drawn to scale

Ans: _____

- b) The perimeter is 75 cm. Form an equation and solve it to find x .

Ans: _____
(6 marks)

6. A group of friends are playing in the park. Their ages are listed below.

6 years 13 years 7 years 11 years 8 years

- a) Work out the mean age.

Ans: _____

- b) Work out the median age.

Ans: _____

- c) Work out the range.

Ans: _____

(7 marks)

7. a) Work out the missing angle a , giving reasons.

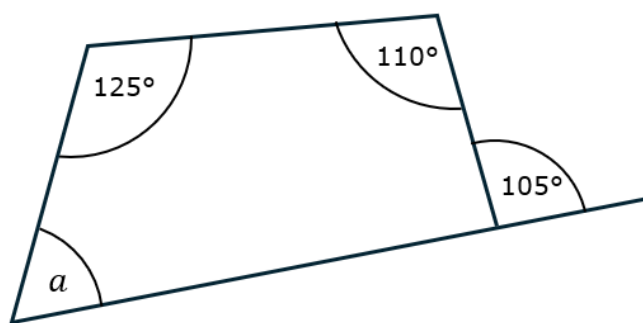


Diagram not drawn to scale

$a =$ _____

- b) AEC and BED are two straight lines.
 Find the missing angles x and y giving reasons.

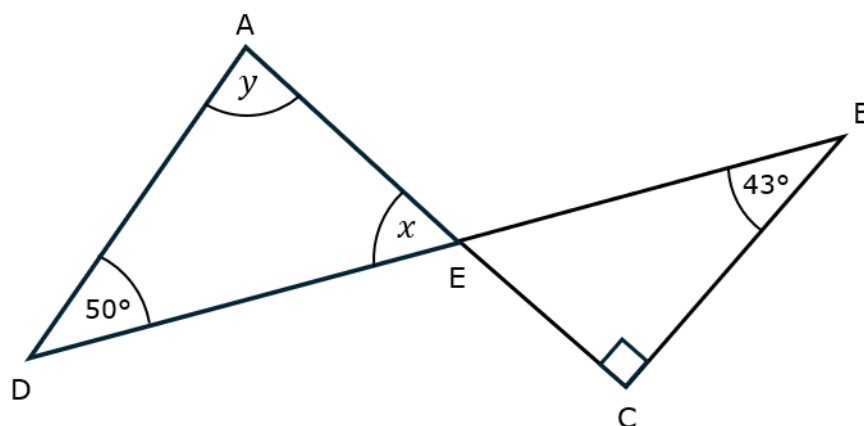


Diagram not drawn to scale

i) $x =$ _____

ii) $y =$ _____

(8 marks)

8. This is the timetable for the Valletta to Mellieħa bus route.
The timetable shows the time when the bus passes through each town.

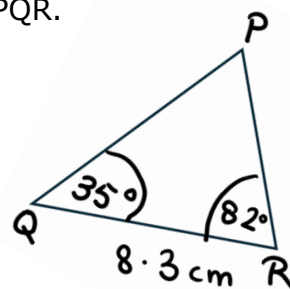
Valletta	08:50	09:50	10:50	11:50	12:50	14:50	15:50
Birkirkara	09:04	10:04	11:04	12:04	13:04	15:04	16:07
Naxxar	09:12	10:12	11:12	12:12	13:12	15:14	16:17
Xemxija	09:41	10:41	11:41	12:41	13:41	15:44	16:52
Mellieħa	09:47	10:47	11:47	12:47	13:47	15:51	16:59

Use the timetable to answer the questions below.

- a) i) Nick lives in **Valletta**. He catches the 09:50 bus to Mellieħa.
He arrives in Mellieħa at _____.
- ii) Nick's trip from Valletta to Mellieħa takes _____ minutes.
- b) i) Mark lives in **Birkirkara**. He needs to be in Mellieħa at 13:00.
To make it in time to Mellieħa, the latest bus he must catch from **Birkirkara** is at _____.
- ii) Mark will arrive _____ minutes early for his appointment.
- c) Jenny is from **Naxxar**. She has an appointment at 16:40 in Mellieħa.
She argues:
- "I can catch the 16:17 bus from Naxxar to be on time for my appointment".
- Is Jenny correct? Give a reason.
- Yes/No _____ because _____
- _____
- _____

(6 marks)

9. a) Use ruler and protractor to construct triangle PQR.
Point Q is marked for you.



+

Q

- b) Measure the side PR.

Ans: _____

- c) Measure angle P.

Ans: _____

(6 marks)

10. Calculate the volume of the compound shape made up of cuboids.

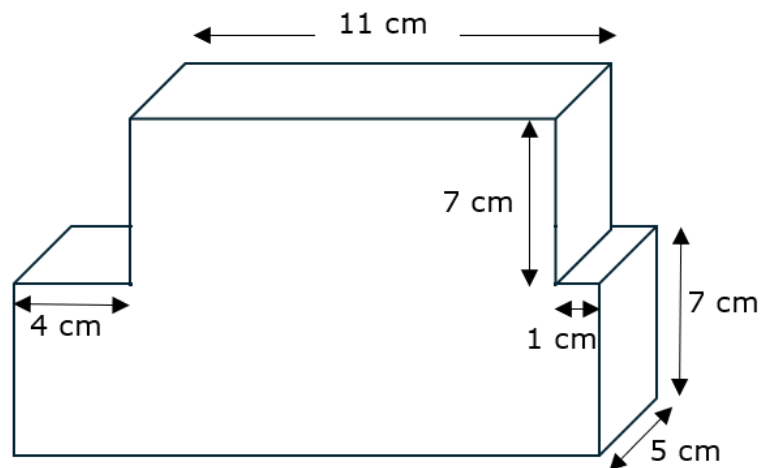


Diagram not drawn to scale

Ans: _____

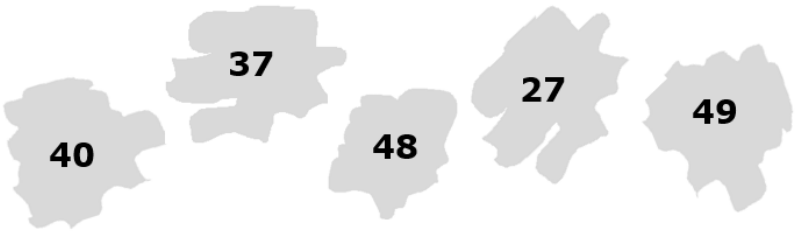
(5 marks)

11. 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)

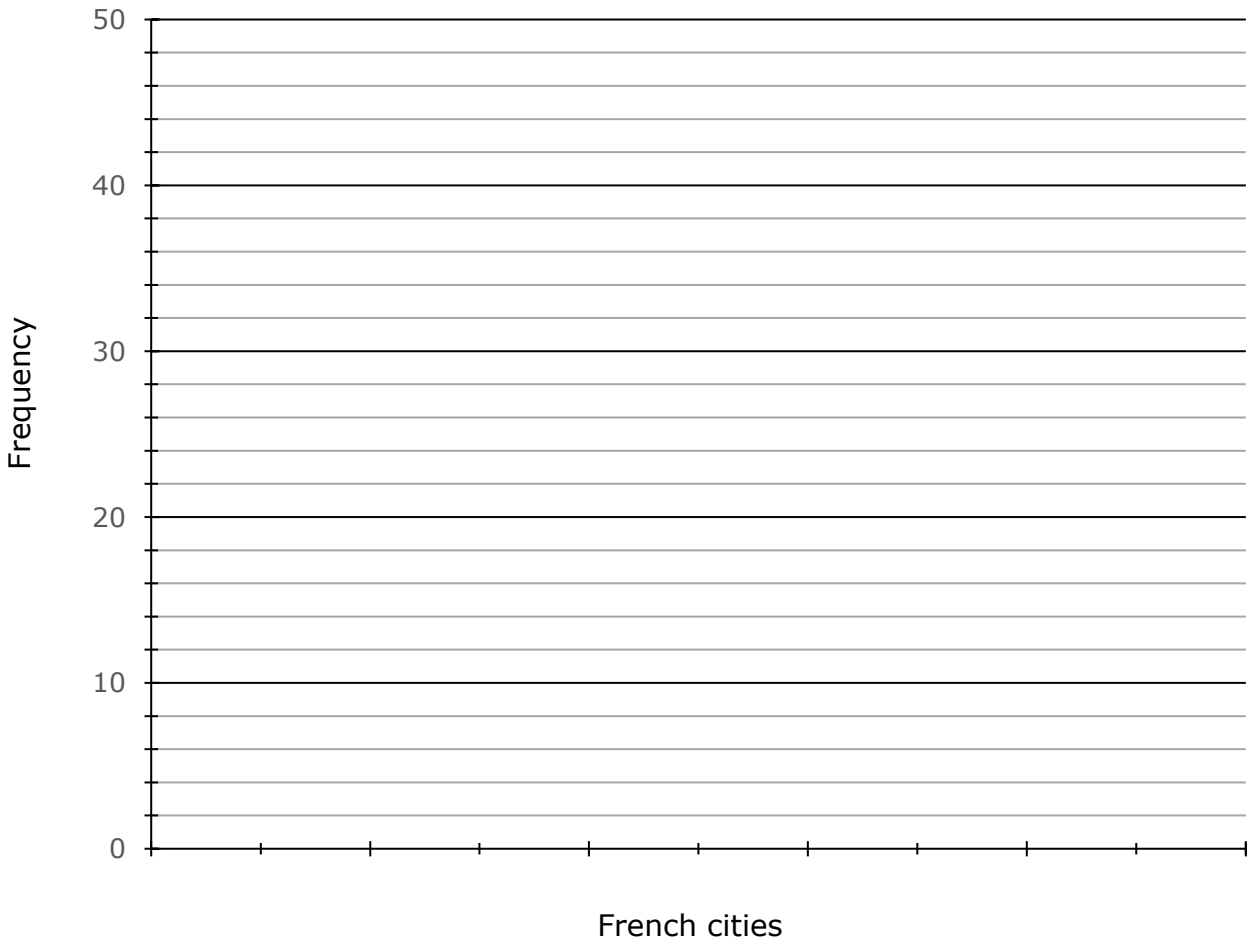
12. Jeremy collected data on favourite French cities.
- a) Use the hints to fill in the frequency table with the numbers below.



- The frequency for Paris is a prime number.
- The frequency for Lyon is a square number.
- The frequency for Bordeaux is the least common multiple of 8 and 20.
- The frequency for Strasbourg is the answer for $\frac{4}{7}$ of 84.

French cities	Marseille	Lyon	Paris	Strasbourg	Bordeaux
Frequency					

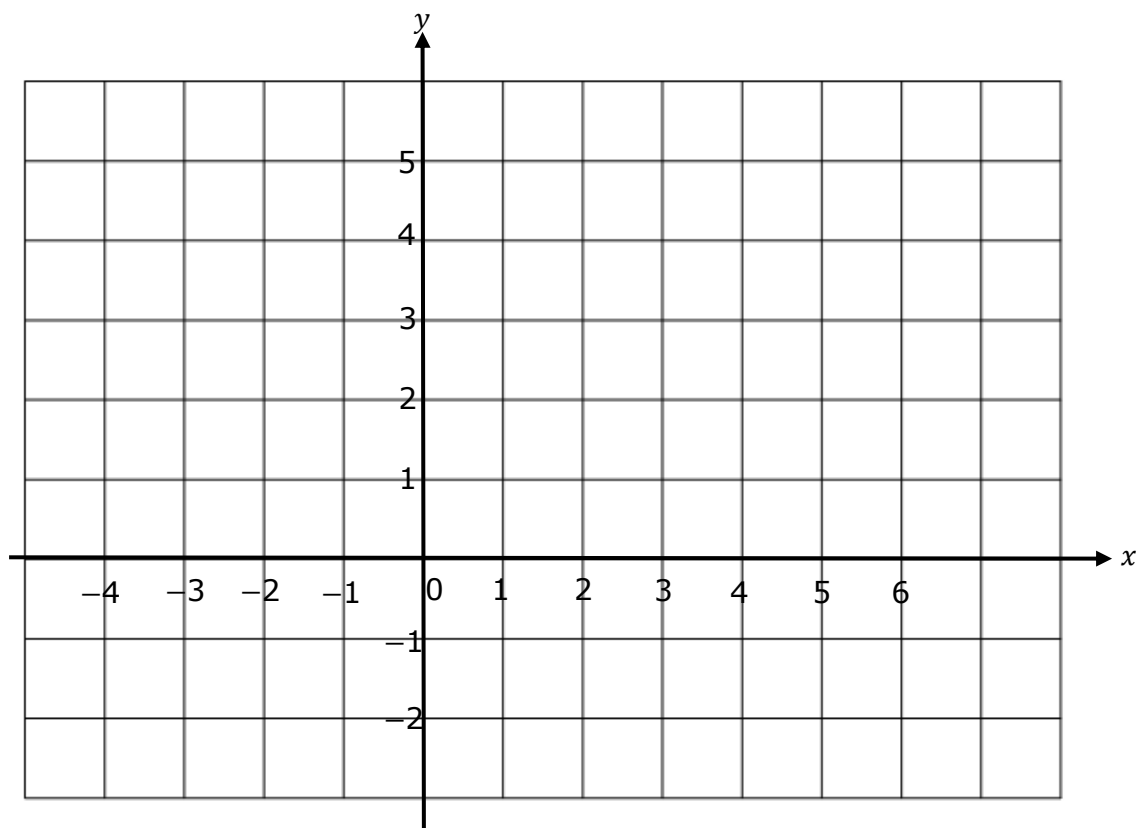
- b) Draw and label a bar chart to represent the above information.



(9 marks)

13. a) Plot the points on the grid below.

$P(-2, 2)$ $Q(1, 5)$ $R(4, 2)$ $S(1, -1)$



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

(7 marks)

End of Main Paper

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