



THIRD SPACE
LEARNING

Mathematics

Paper 2

(Calculator)

Foundation Tier

AQA GCSE

SET 5

Mathematics Paper 2 (Calculator) Foundation Tier AQA

GCSE SET 5

Name

Total marks

Paper length: 1hr 30mins



Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may be used.

Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Question	Mark
1	
2	
3	
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25	

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

This practice paper is based on the topics from the **advanced information for the November 2026 exam series**.

Please note, this practice paper is an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers

1 (a) Write 77% as a fraction.

[1 mark]

Answer _____

(b) Write $\frac{3}{8}$ as a decimal.

[1 mark]

Answer _____

(c) Write 0.48 as a percentage.

[1 mark]

Answer _____

2 (a) Round 38729 to the nearest 100

[1 mark]

Answer _____

(b) Round 0.3794 to 2 decimal places.

[1 mark]

Answer _____

3 (a) Simplify $b + b + b + b$

[1 mark]

Answer _____

(b) Simplify $3a + a + 7a - 2a$

[1 mark]

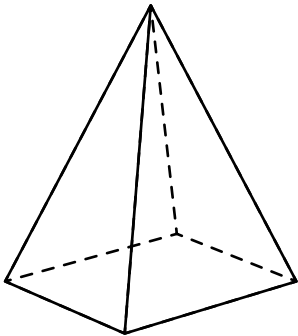
Answer _____

(c) Simplify $y \times y \times y$

[1 mark]

Answer _____

4 (a) Here is a 3D shape.

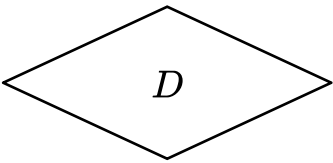
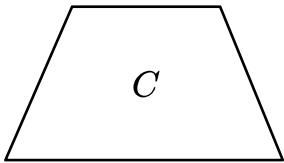
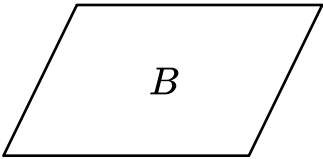
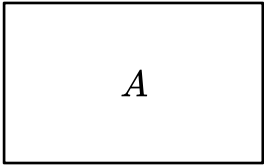


Write down the mathematical name of this shape.

[1 mark]

Answer _____

(b)



Write down the letters of any shapes with the following properties

[3 marks]

Property	Shape/shapes
1 line of symmetry	
2 lines of symmetry	
Rotational symmetry order 2	

- 5 Lorraine writes down the number of miles her car has travelled before and after a journey.

Before	69543
After	69871

Lorraine can claim 45p per mile from her employer to cover her travel expenses.

How much can Lorraine claim for this journey?

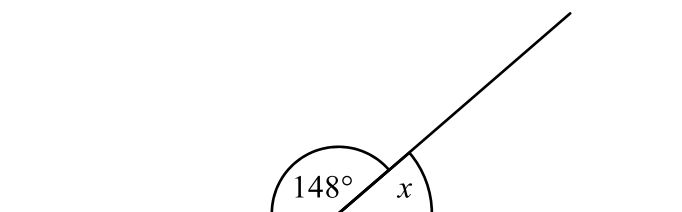
Give your answer in pounds.

[4 marks]

Answer £ _____

- 6 Work out the size of angle x

[1 mark]



Answer _____ °

7 Here is part of a bus timetable between Saron and Carmarthen.

Saron	0711		0811		0911
Cwmdud	0722		0823		0923
Cynwel Elfed	0729	0800	0831	0900	0931
Bronwydd	0736	0807	0839	0908	0939
Abergwili	0744	0815	0848	0917	0948
Carmarthen	0750	0821	0855	0924	0955

(a) How long should the 0711 bus from Saron take to get to Abergwili?

[1 mark]

Answer _____ minutes

(b) Sheila catches the bus from Saron to Carmarthen.

It takes Sheila 8 minutes to walk from her house to the bus stop in Saron.

It takes Sheila 11 minutes to walk from the bus stop in Carmarthen to her office.

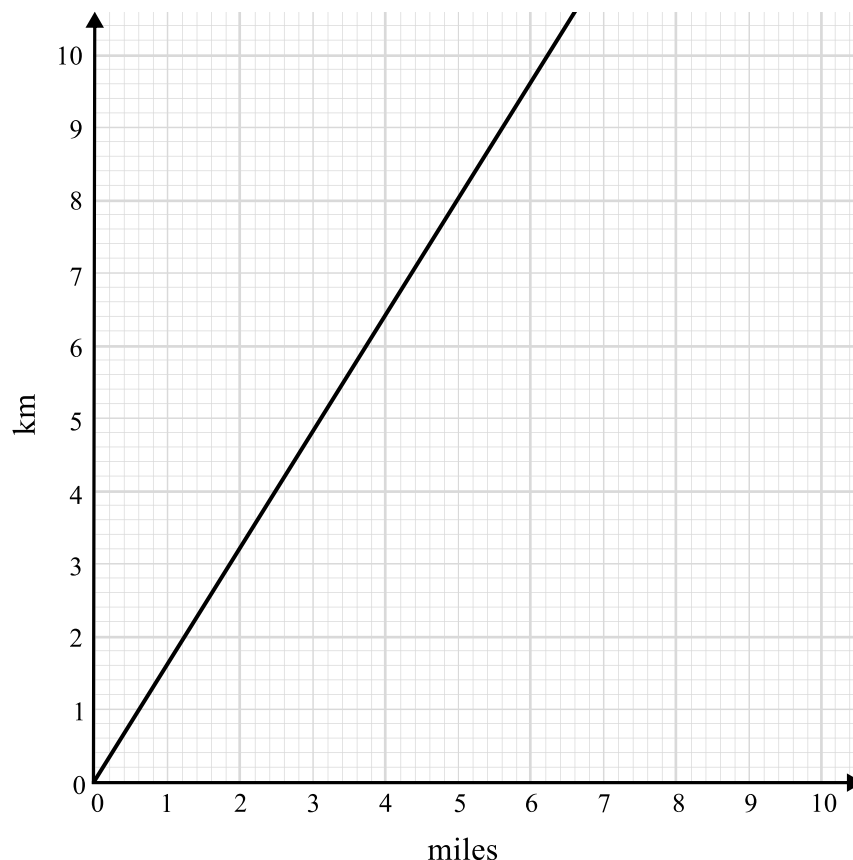
Sheila needs to get to work in Carmarthen by 0915

Write out a plan for Sheila's journey.

State the latest time that Sheila can leave the house and the time she will get to work.

[3 marks]

8 This graph can be used to convert miles into km.



(a) Use the graph to convert 3 miles into km.

[1 mark]

Answer _____ km

(b) The speed limit on a road is 90km/h.

Gary drives along the road at 58 miles per hour.

Does Gary break the speed limit?

Show how you decide.

[3 marks]

Answer £ _____

- 9** A factory produces 3000 tubes of toothpaste per day.
A box contains 24 tubes of toothpaste.
A crate contains 16 boxes.

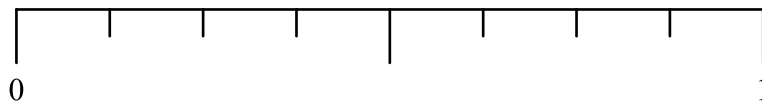
How many full crates of toothpaste are produced in 5 days?

[4 marks]

Answer _____

- 10** Niamh has a bag containing 3 blue counters, 7 green counters and 6 yellow counters.
Draw an arrow ($\downarrow$) on the probability scale to show the probability that Niamh picks a yellow counter from the bag.

[2 marks]



11 $a = 379 - 13^2$

$$b = \frac{24 \times 32}{12.8}$$

Work out the value of $\frac{a}{b}$

[2 marks]

Answer _____

12 Complete this statement.

[1 mark]

$10^7 =$ _____ million

- 13** 150 people chose their favourite pizza toppings from margherita, pepperoni and Hawaiian.
Of the 150 people, 82 were children.

62 people chose margherita.

42 children chose margherita.

18 children chose Hawaiian.

Twice as many adults as children chose Hawaiian.

Work out the number of children who chose pepperoni.

[4 marks]

Answer _____

14 The table shows information about the number of children in 50 primary schools.

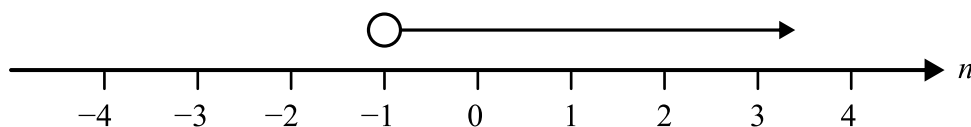
Number of children	Frequency
$0 < c \leq 100$	6
$100 < c \leq 200$	16
$200 < c \leq 300$	11
$300 < c \leq 400$	10
$400 < c \leq 500$	7

Work out an estimate for the mean number of children in the schools.

[3 marks]

Answer _____

15



(a) Write down the inequality shown on the number line.

[1 mark]

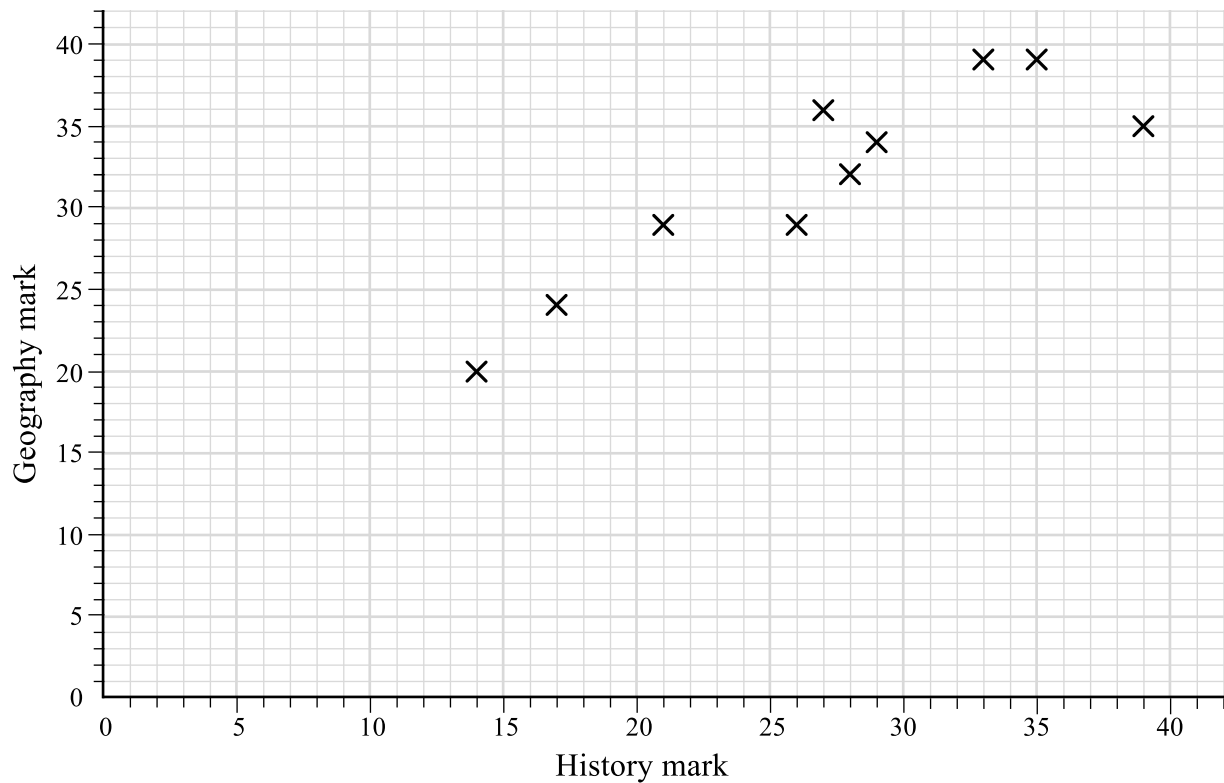
Answer _____

(b) Solve $3p - 11 < p + 5$

[2 marks]

Answer _____

16 The scatter diagram shows the history and geography marks of 10 students in their recent tests.



(a) Describe the correlation shown in the graph.

[1 mark]

Another student scored 25 in the history test.

(b) Use the graph to estimate this student's score in the geography test.

[2 marks]

(c) Both tests were out of 40. Which test do you think was easier? Explain why.

[2 marks]

17 (a) The first 5 terms of an arithmetic sequence are

6 11 16 21 26...

Find an expression in terms of n for the n th term of this sequence.

[2 marks]

Answer _____

(b) The n th term of a different sequence is $n^2 + 3$

172 is a term in this sequence.

Find the next term after 172.

[3 marks]

Answer _____

18 (a) The ratio of adults:children watching a film at the cinema is 3:5.

There are 27 adults watching the film.

Show that 45 children are watching the film.

[2 marks]

Answer _____

(b) $\frac{3}{5}$ of the children have popcorn.

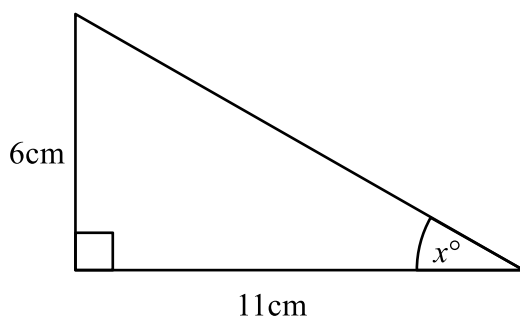
$\frac{2}{3}$ of the adults have popcorn.

What percentage of the people watching the film have popcorn?

[3 marks]

Answer _____

19



Work out the value of x .

Give your answer correct to 3 significant figures

[2 marks]

Answer _____^o

20 Frankie invests £7000 in a bank account.

Frankie gets 6% per annum compound interest.

After n years, Frankie has £9367.58

Work out the value of n .

[2 marks]

Answer _____

- 21** A helicopter travels 50km north and then 70km east.

The helicopter then travels directly back to its starting point.

The cost of fuel for the helicopter is £2.50 per km.

What is the cost of the fuel for the helicopter's journey?

[4 marks]

Answer £ _____

- 22** Solve

$$3a + 2b = 11$$

$$4a - 5b = 30$$

[3 marks]

Answer $a =$ _____ $b =$ _____

23 (a) Circle the reciprocal of 0.4

[1 mark]

4 $\frac{1}{4}$ 2 2.5

(b) $x = 5.3$ to 2 significant figures

Complete the error interval for x

[2 marks]

Answer _____ $\leq x <$ _____

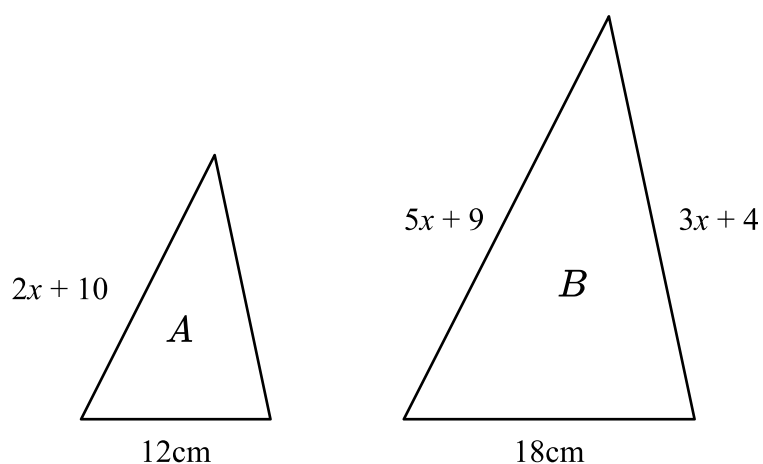
24 The bearing of A from B is 121° .

What is the bearing of B from A ?

[2 marks]

Answer _____ $^\circ$

25 Triangles A and B are similar triangles.



Work out the perimeter of triangle B .

[5 marks]

Answer _____ cm

End of Questions

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