



THIRD SPACE
LEARNING

Mathematics

Paper 2

(Calculator)

Foundation Tier

Edexcel GCSE

SET 4

Mathematics Paper 2 (Calculator) Foundation Tier Edexcel

GCSE SET 4

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.

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.

Question	Mark
1	
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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 2025 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 Write 1688 to the nearest 10.

(Total for Question 1 is 1 mark)

2 Write down an even 3-digit number.

(Total for Question 2 is 1 mark)

3 Change 4.5 metres into centimetres.

cm
(Total for Question 3 is 1 mark)

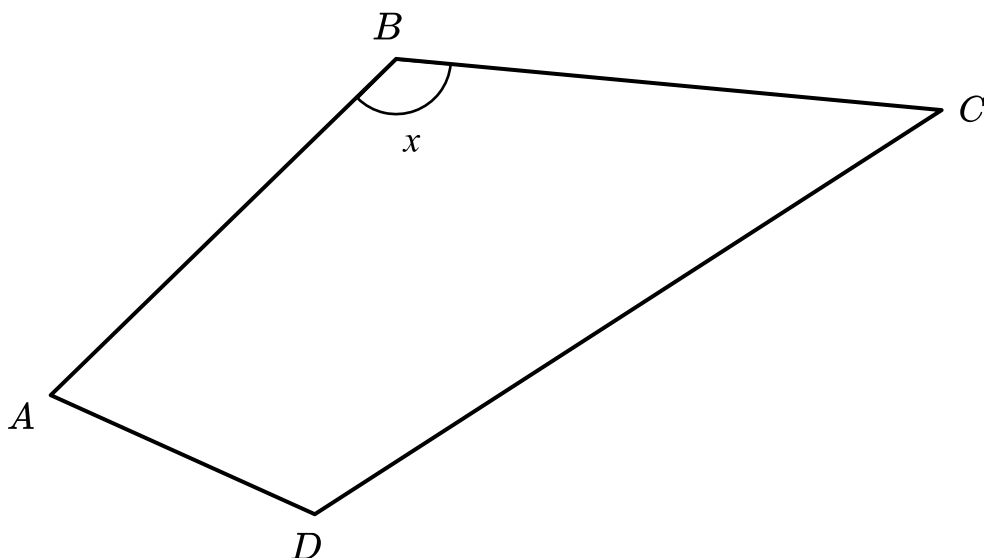
4 Write 47% as a fraction.

(Total for Question 4 is 1 mark)

5 Work out 7^4

(Total for Question 5 is 1 mark)

6 Here is the quadrilateral $ABCD$.



- (a) Measure the length of the side CD .
Give your answer in centimetres.

..... cm
(1)

- (b) Measure the size of the angle marked x .

.....
(1)

(Total for Question 6 is 2 marks)

7 Heidi goes to the beach.
She leaves home at 10am.
It takes her 35 minutes to travel to the beach.
Heidi has £3.50 in her purse.

The parking tariffs are:

Up to 1 hour	£2
1 - 2 hours	£3
2 - 4 hours	£4
4+ hours	£6

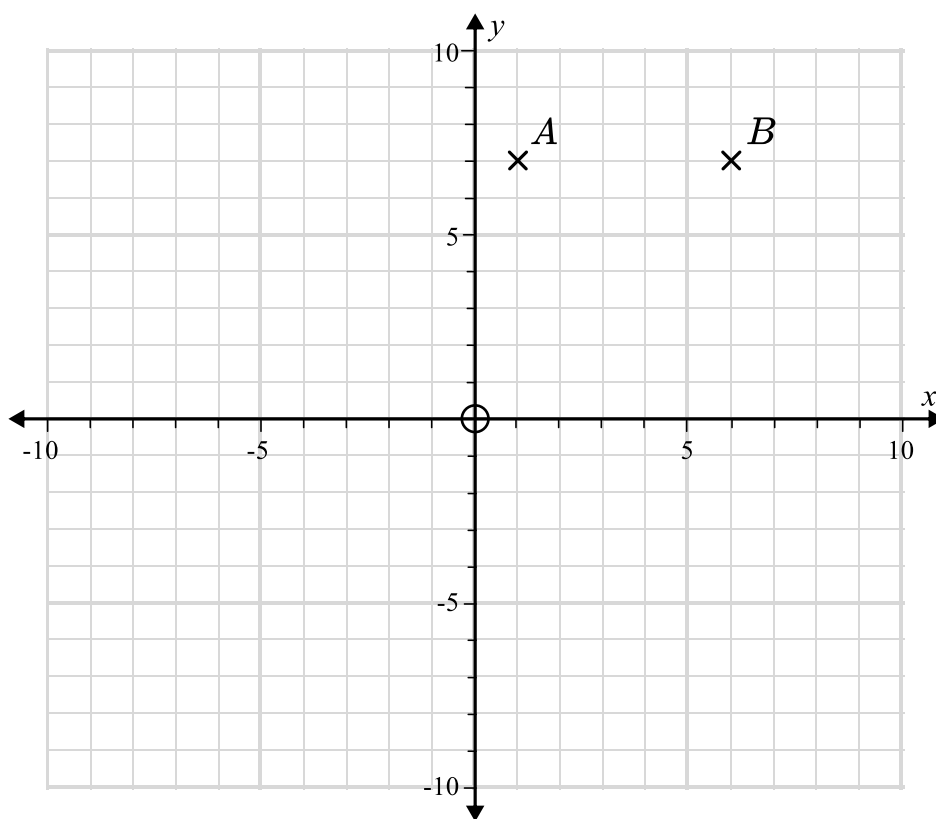
Heidi pays for the longest time period of parking that she can with the money in her purse.
What time will Heidi need to leave the beach?

(Total for Question 7 is 3 marks)

8 Cat says that $\frac{1}{3} = 0.3$
Explain why Cat is wrong.

(Total for Question 8 is 1 mark)

9 Here is a coordinate grid.



(a) Write down the coordinates of point A .

(..... ,)

(1)

(b) On the grid, mark with a cross (X) the point with coordinates (1, -2)

Label the point C .

(1)

(c) A fourth point is added to form a rectangle.

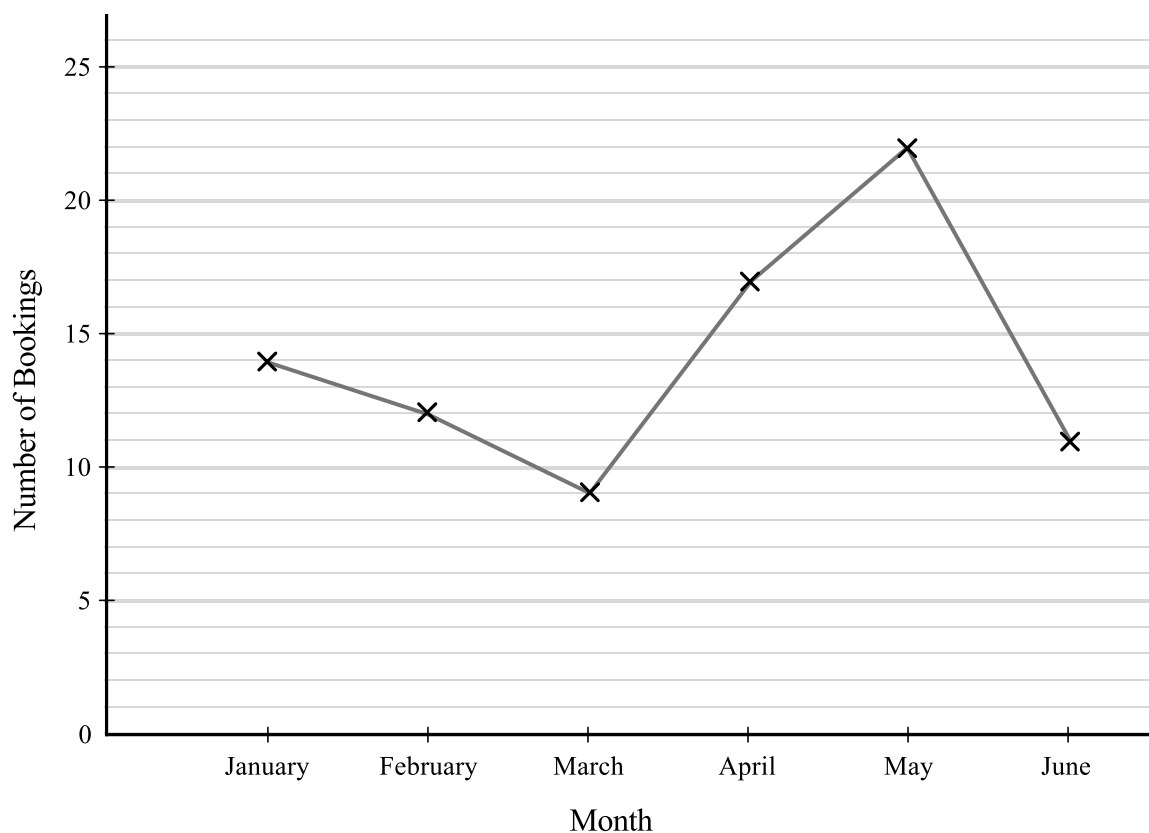
Write down the coordinates of this point.

(..... ,)

(2)

(Total for Question 9 is 4 marks)

- 10** The graph shows information about the number of bookings received by a campsite over the months of January to June.



- (a)** How many bookings were made in April?

(1)

- (b)** Find the range of the number of bookings made between January and June.

(2)

- (c)** What fraction of the bookings were made in January?

(2)

(Total for Question 10 is 5 marks)

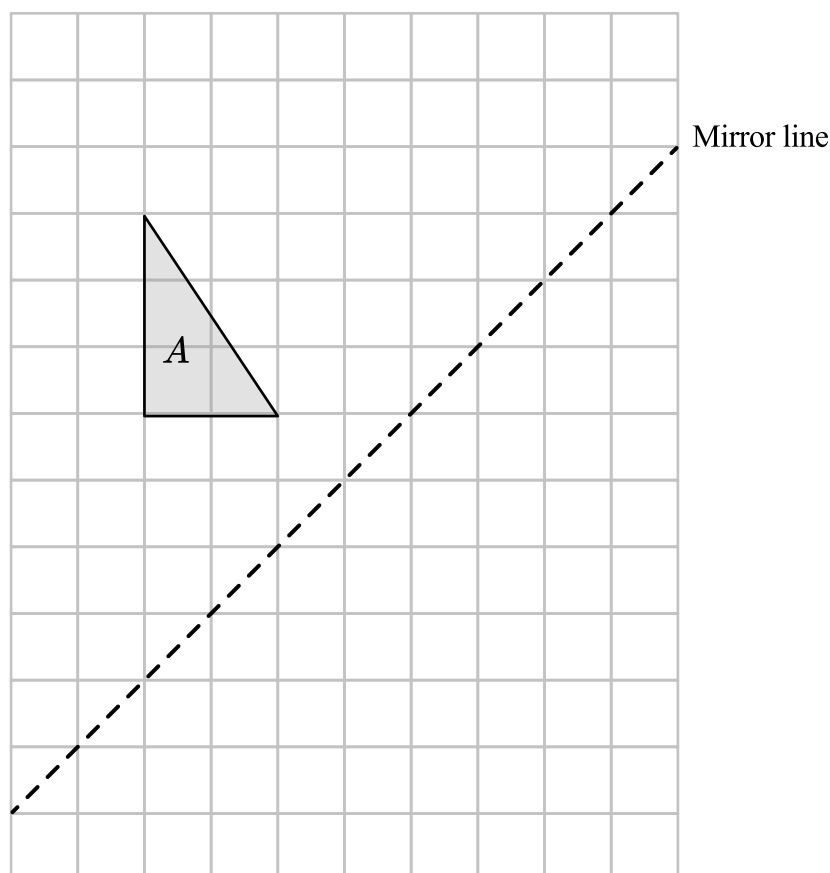
- 11** Elkana is creating a 4-digit password.

The password is the letter *E* followed by a combination of the characters 3, 5 and #.

Write down all the possibilities for Elkana's password.

(Total for Question 11 is 2 marks)

- 12** Reflect shape *A* in the mirror line. Label the image *B*.



(Total for Question 12 is 2 marks)

- 13 A handyman worked for 3.5 hours on Wednesday.
- This is $\frac{1}{12}$ of the total number of hours he worked that week.
- Work out the total number of hours he worked that week.

(Total for Question 13 is 2 marks)

- 14 Gustav asked his friends how many goals they had scored during the football season.
- Here are the results.

23	17	9	13	22
31	30	21	11	7
23	28	10	8	16

- (a) Show this information in a stem and leaf diagram.

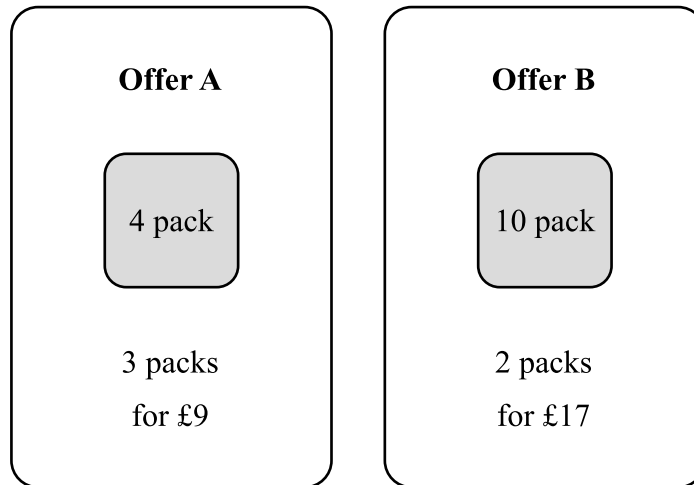
(3)

- (b) Find the range of the number of goals.

(1)

(Total for Question 14 is 4 marks)

- 15** A shop sells packs of socks. Socks come in packs of 4 or packs of 10.
The shop has two offers on.



Which offer is better value for money?
You must show how you got your answer.

(Total for Question 15 is 3 marks)

- 16** On a map, it is 2.4cm from the park to the school and 4cm from the park to the shop.
The real distance from the park to the school is 384m .
What is the real distance from the park to the shop?

m

(Total for Question 16 is 3 marks)

- 17** Adam owns A books.
Ben owns twice as many books as Adam.
Laura owns 3 more books than Ben.
- The total number of books owned by Adam, Ben and Laura is T .
- Find a formula for T in terms of A .

(Total for Question 17 is 3 marks)

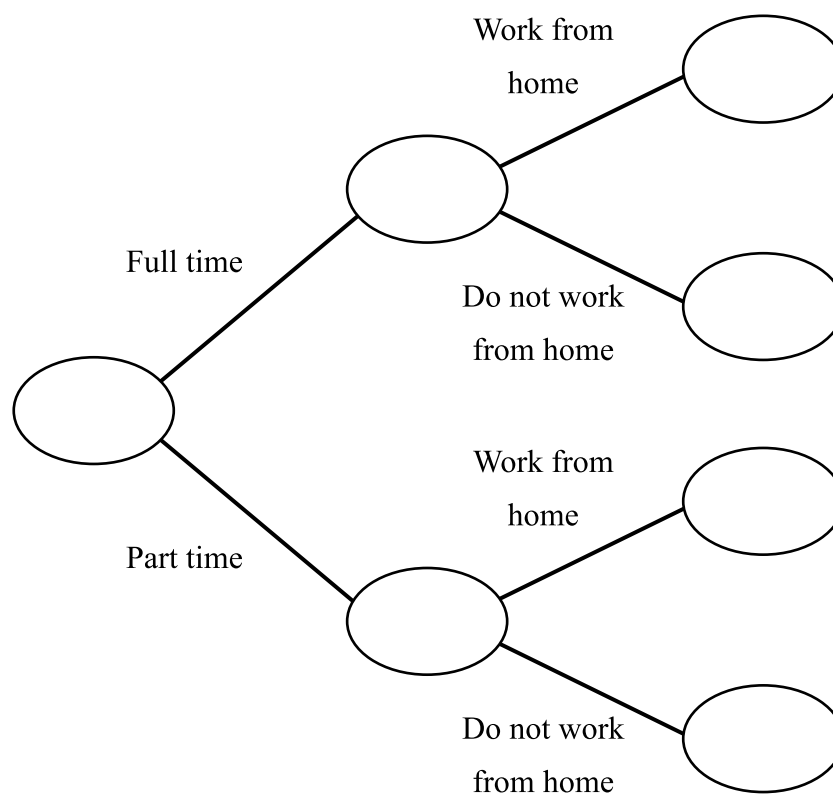
18 80 people are asked about their jobs.

56 of the people work full time and the rest work part-time.

Of those who work full time, $\frac{3}{8}$ work from home.

Altogether, 40% of the people work from home.

(a) Complete the frequency tree for this information.



(5)

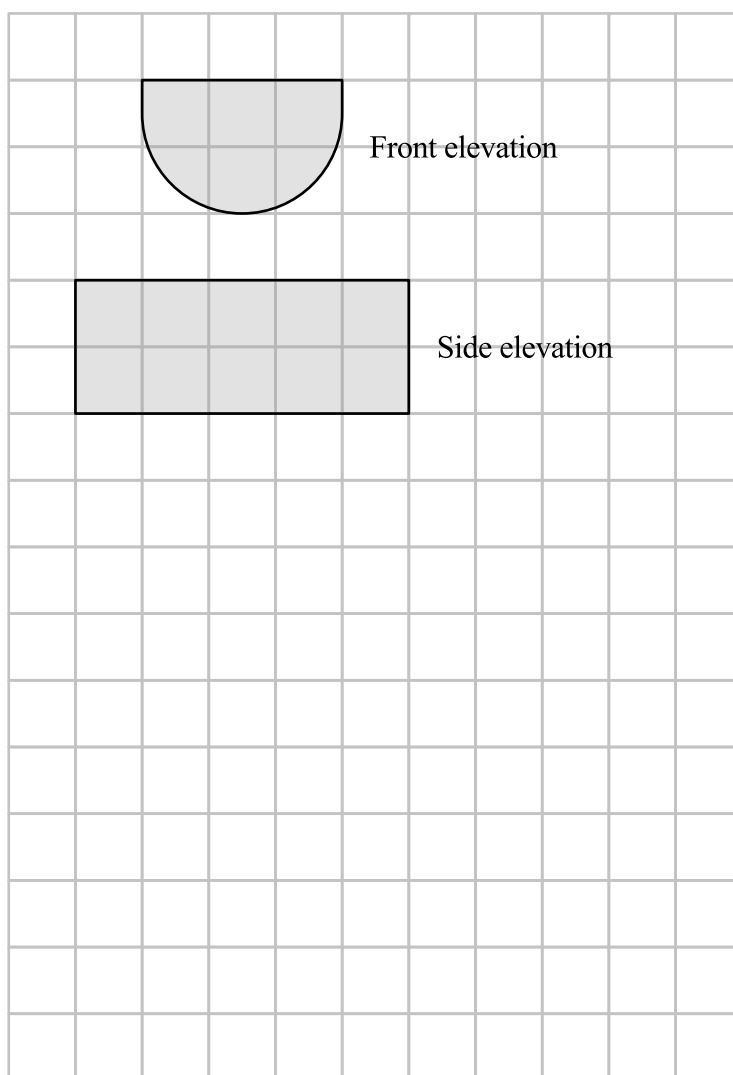
(b) What is the probability that a part-time worker works from home?

(2)

(Total for Question 18 is 7 marks)

19 The front elevation and the side elevation of a solid prism are shown on the grid.

On the grid, draw the plan of the solid.



(Total for Question 19 is 2 marks)

20 (a) Simplify $p^7 \div p^3$

(1)

(b) Simplify $(q^3)^5$

(1)

(c) Matthew simplifies $2x^2 \times 3x^5$

Matthew's answer is $5x^7$.

Explain Matthew's mistake.

(1)

(Total for Question 20 is 3 marks)

21 Blue and yellow paint is needed to make green paint.

5 litres of blue paint costs £17.50.

The ratio of the cost of blue paint to the cost of yellow paint is 5:6.

Work out the cost of 8 litres of yellow paint.

£

(Total for Question 21 is 4 marks)

22 Solve $3(2x + 4) = 2(5x - 3)$

$x =$ _____

(Total for Question 22 is 3 marks)

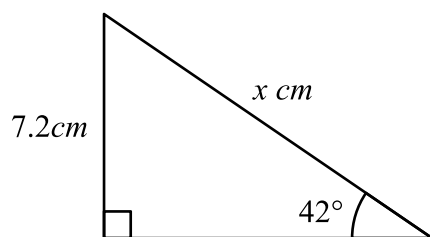
23 (a) Find the highest common factor (HCF) of 48 and 72.

(2)

(b) Find the lowest common multiple (LCM) of 32 and 40.

(2)

(Total for Question 23 is 4 marks)

24

Work out the value of x .

Give your answer correct to 3 significant figures.

----- cm

(Total for Question 24 is 2 marks)

25 (a) Write the reciprocal of 0.4 as a decimal.

(1)

(b) $x = 230$ to 2 significant figures.

Complete the error interval for x .

 $\leq x <$

(2)

(Total for Question 25 is 3 marks)

- 26** The cost of 3 teas and 4 coffees is £10.80.
The cost of 2 teas and 5 coffees is £11.40.

Work out the cost of 4 teas and 1 coffee.
You must show all your working.

£

(Total for Question 26 is 5 marks)

- 27** The radius of planet A is $4 \times 10^3 \text{ km}$
The volume of planet B is 9.05×10^{11}

Volume of a Sphere: $V = \frac{4}{3}\pi r^3$

How many times greater is the radius of planet B than the radius of planet A ?

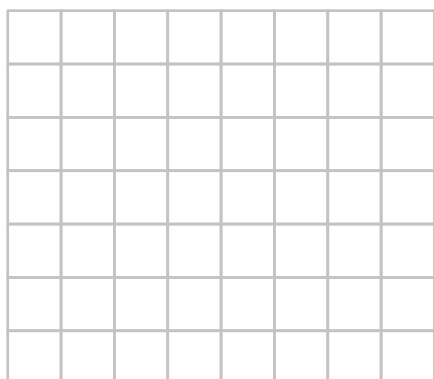
(Total for Question 27 is 4 marks)

28 Vector $\mathbf{a} = \begin{pmatrix} 2 \\ 5 \end{pmatrix}$

Vector $\mathbf{b} = \begin{pmatrix} -2 \\ -1 \end{pmatrix}$

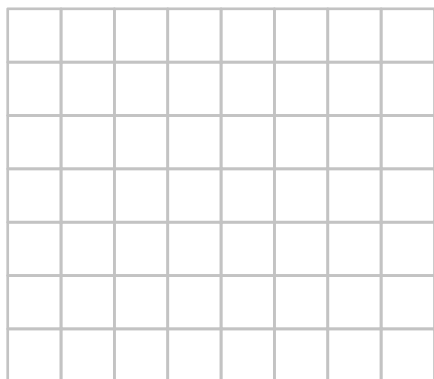
On each grid below, draw a vector to represent

(a) $2\mathbf{b}$



(1)

(b) $\mathbf{a} + \mathbf{b}$



(1)

(Total for Question 28 is 2 marks)

29 Some people were asked whether they had any siblings.

20% of the people said no.

60% of the people who said yes, said they had more than one sibling.

What percentage of the people asked had more than one sibling?

(Total for Question 29 is 2 marks)

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