



THIRD SPACE
LEARNING

Mathematics

Paper 1

(Non-Calculator)

Foundation Tier

Edexcel GCSE

SET 4

Mathematics Paper 1 (Non-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 not 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 42% as a decimal.

(Total for Question 1 is 1 mark)

- 2 Work out 5^2

(Total for Question 2 is 1 mark)

- 3 Here is a list of numbers:

1.3

1.7

0.3

1.5

3.1

From the list, write down the largest number.

(Total for Question 3 is 1 mark)

- 4 Write down the value of the 6 in the number 5649

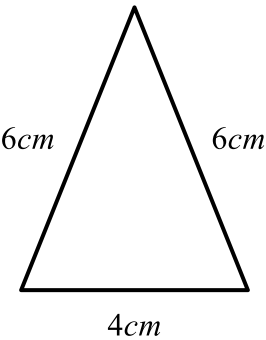
(Total for Question 4 is 1 mark)

- 5 Simplify

$$4p + 7p - 2p$$

(Total for Question 5 is 1 mark)

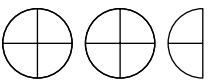
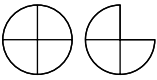
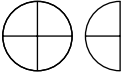

6 Here is a triangle.




Liam says that this is an equilateral triangle.
Is Liam correct? Explain your answer.

(Total for Question 6 is 1 mark)

7 The pictogram shows the number of rainy days over a number of months.

April	
May	
June	
July	

Key:  = days

It rained on 20 days in April.

(a) Complete the key

(1)

(b) On how many more days did it rain in May than in July?

(2)

(Total for Question 7 is 3 marks)

8 (a) Solve $n + 7 = 20$

$n =$ _____
(1)

(b) Solve $3m = 75$

$m =$ _____
(1)

(Total for Question 8 is 2 marks)

9 Olivia buys

1 box of cereal for £1.80

1 bottle of milk for 90p

3 bananas for 25p each

Olivia pays with a £5 note.

How much change should Olivia get?

£ _____
(Total for Question 9 is 3 marks)

- 10** The temperature inside Sofia's house is 21°C .

The temperature outside Sofia's house is 30°C lower than the temperature inside her house.

Work out the temperature outside of Sofia's house.

 $^{\circ}\text{C}$

(Total for Question 10 is 2 marks)

- 11** On a farm there are 250 animals.

$\frac{4}{5}$ of the animals are cows.

There are 2 dogs.

The rest of the animals are chickens or goats.

The ratio of chickens:goats is 3:1.

Work out the number of chickens on the farm.

(Total for Question 11 is 4 marks)

12 Here are 7 numbers.

9 11 6 5 9 2 3

(a) Write down the mode.

(1)

(b) Work out the median.

(2)

(Total for Question 12 is 3 marks)

13 There are 31 children in a class.

4 of them are left-handed.

(a) One child is picked at random.

Write down the probability that the child is left-handed.

(1)

(b) Approximately 10% of the world's population are left-handed.

Are more or less than 10% of this class left-handed?

Explain your answer.

(2)

(Total for Question 13 is 3 marks)

14 $C = 15 + 10p$

Work out the value of C when $p = 4$

$C =$ _____

(Total for Question 14 is 2 marks)

15 Work out 3.7×24

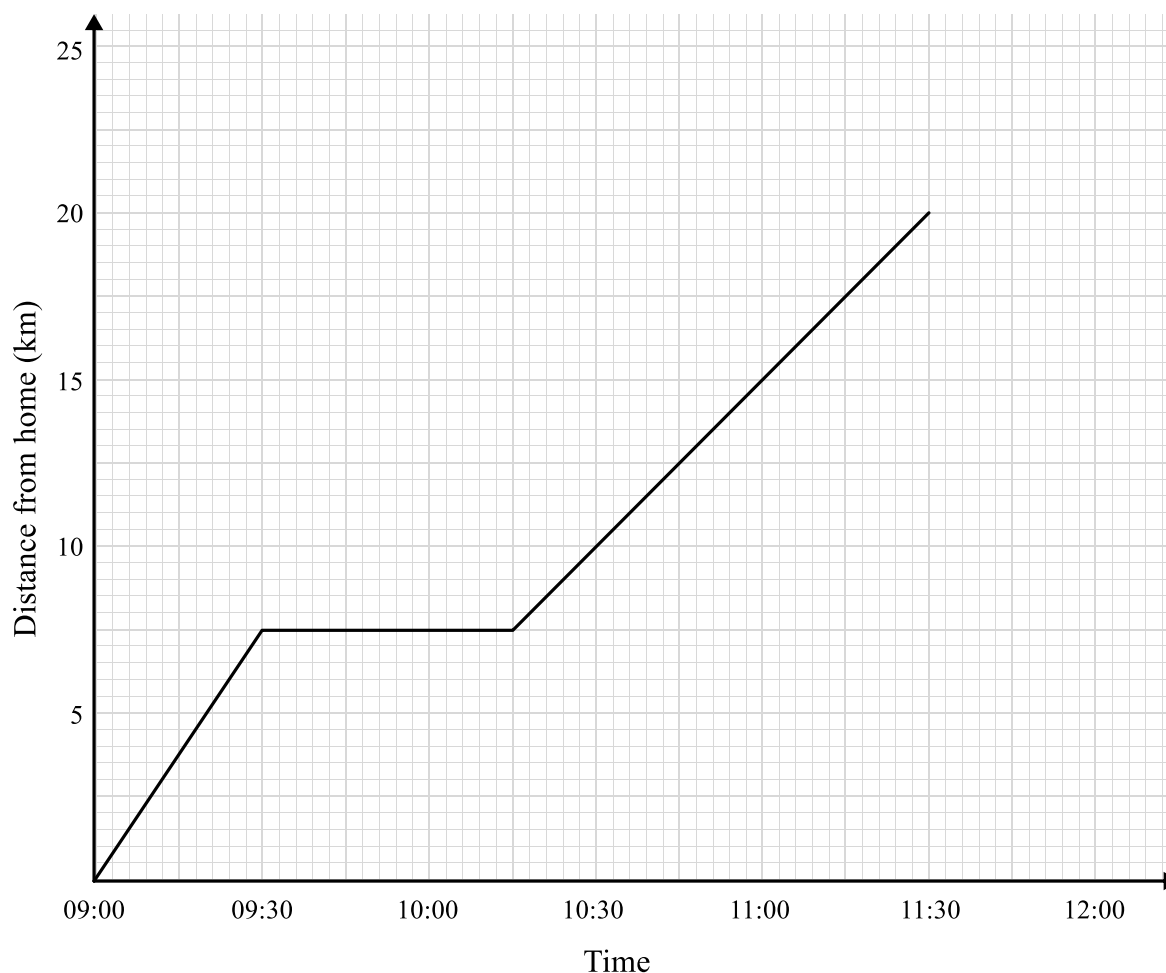
(Total for Question 15 is 2 marks)

16 Priti went for a ride on her bicycle.

She rode from her home to her friend's house.

She stayed at her friend's house for a while and then continued on to the shop.

Here is Priti's travel graph.



(a) What was Priti's average speed during the first part of her journey?

km/h

(2)

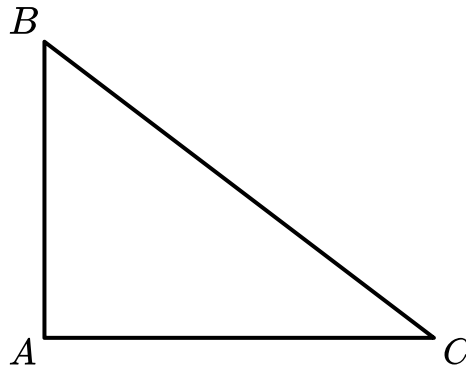
(b) Was Priti's average speed faster during the first or second part of her journey?

Explain how you know.

(2)

(Total for Question 16 is 4 marks)

17 ABC is a triangle.



The ratio of the sides $AB : AC : BC$ is $3 : 4 : 5$.

The perimeter of the triangle is 48cm .

Find the length of the side AB .

 cm

(Total for Question 17 is 3 marks)

18 (a) Here are the first five terms of an arithmetic sequence.

-4 5 14 23 32

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

(2)

(b) Here are the first five terms of a Fibonacci style sequence.

2 2 4 6 10

Write down the next two terms in the sequence.

(2)

(Total for Question 18 is 4 marks)

19 Astrid's house is $2\frac{1}{2}$ miles west of Felix's house. Hannah's house is $5\frac{1}{3}$ miles east of Astrid's house.

How far is it from Felix's house to Hannah's house?

Give your answer as a mixed number

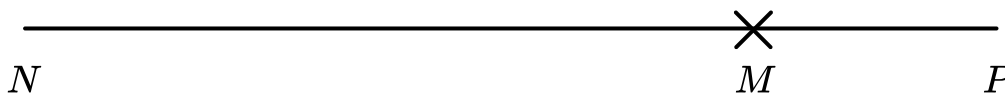
(Total for Question 19 is 4 marks)

- 20** Gary works from 9.30am to 12.15pm and from 1pm to 5.30pm, 5 days per week.
Gary gets paid £16 per hour.
How much does Gary get paid each week?

£

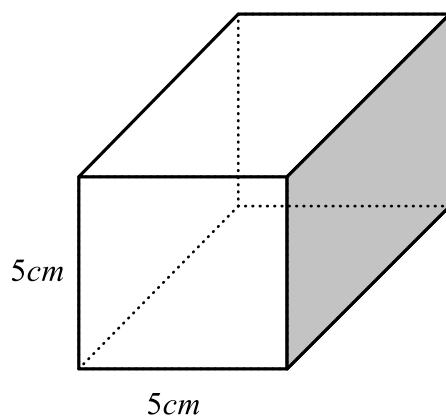
(Total for Question 20 is 4 marks)

- 21** Use a ruler and compasses to construct the line perpendicular to the line NP at the point M .
You must show **all** construction lines.



(Total for Question 21 is 2 marks)

22 Here is a cuboid.



The total surface area of the cuboid is 210cm^2 .

Work out the volume of the cuboid.

 cm^3

(Total for Question 22 is 4 marks)

23 Write 132 as a product of its prime factors.

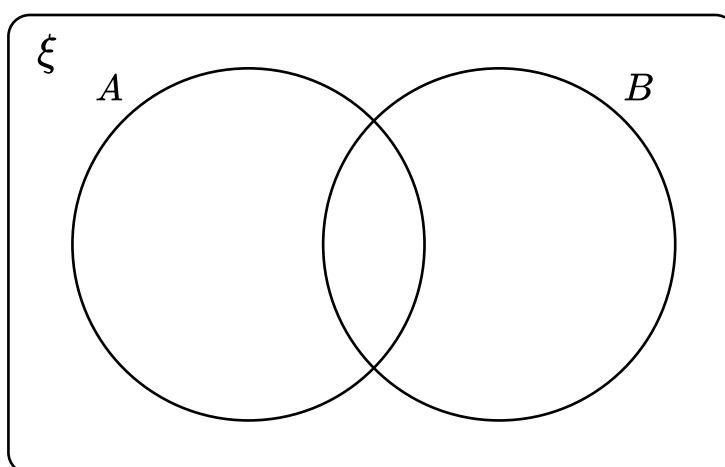
(Total for Question 23 is 2 marks)

24 $\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$A = \{\text{even numbers}\}$

$B = \{\text{factors of 12}\}$

(a) Complete the Venn diagram for this information.



(3)

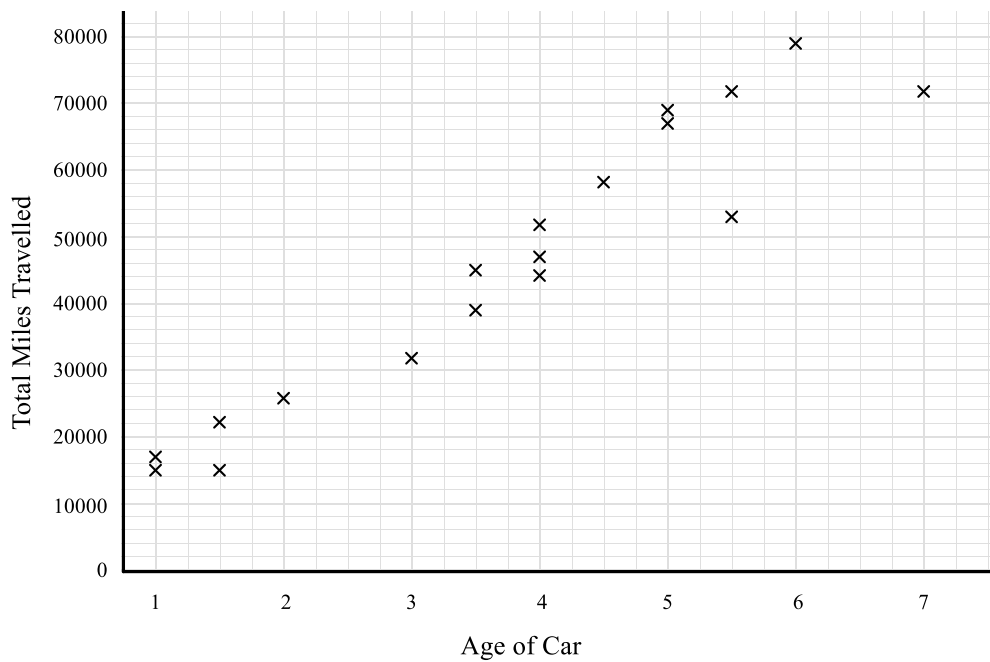
(b) A number is chosen at random from the universal set ξ .

Find the probability that this number is in the set $A \cup B$.

(2)

(Total for Question 24 is 5 marks)

25 The scatter diagram shows information about the age and total miles covered by some cars belonging to a certain company.



(a) Describe the relationship between the age of a car and the total distance it has travelled.

(1)

(b) Another car is 2.5 years old.

Using the scatter graph, find an estimate for the total distance travelled by this car.

----- miles

(2)

(Total for Question 25 is 3 marks)

26 (a) Solve $p < \frac{p+6}{3} + 3$

(3)

(b) Factorise $x^2 + 3x - 40$

(2)

(c) Solve $x^2 + 3x - 40 = 0$

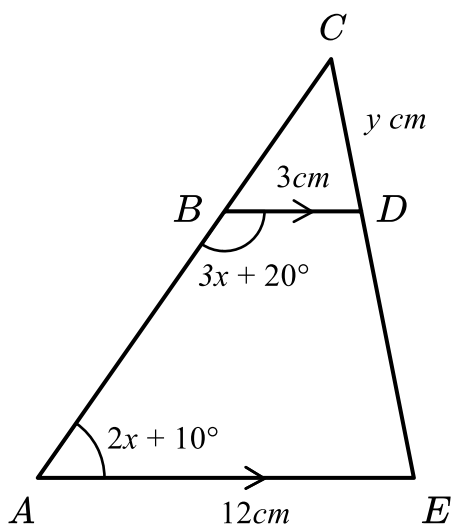
(1)

(Total for Question 26 is 6 marks)

27 Write down the exact value of $\sin(30)$.

(Total for Question 27 is 1 mark)

28 ACE is a triangle.



ABC and CDE are straight lines.

AE is parallel to BD .

Angle $BAE = 2x + 10^\circ$

Angle $ABD = 3x + 20^\circ$

$BD = 3 \text{ cm}$

$CD = y \text{ cm}$

$AE = 12 \text{ cm}$

(a) Work out the value of x .

$x =$ _____
(3)

(b) Find an expression, in terms of y , for the length of CE

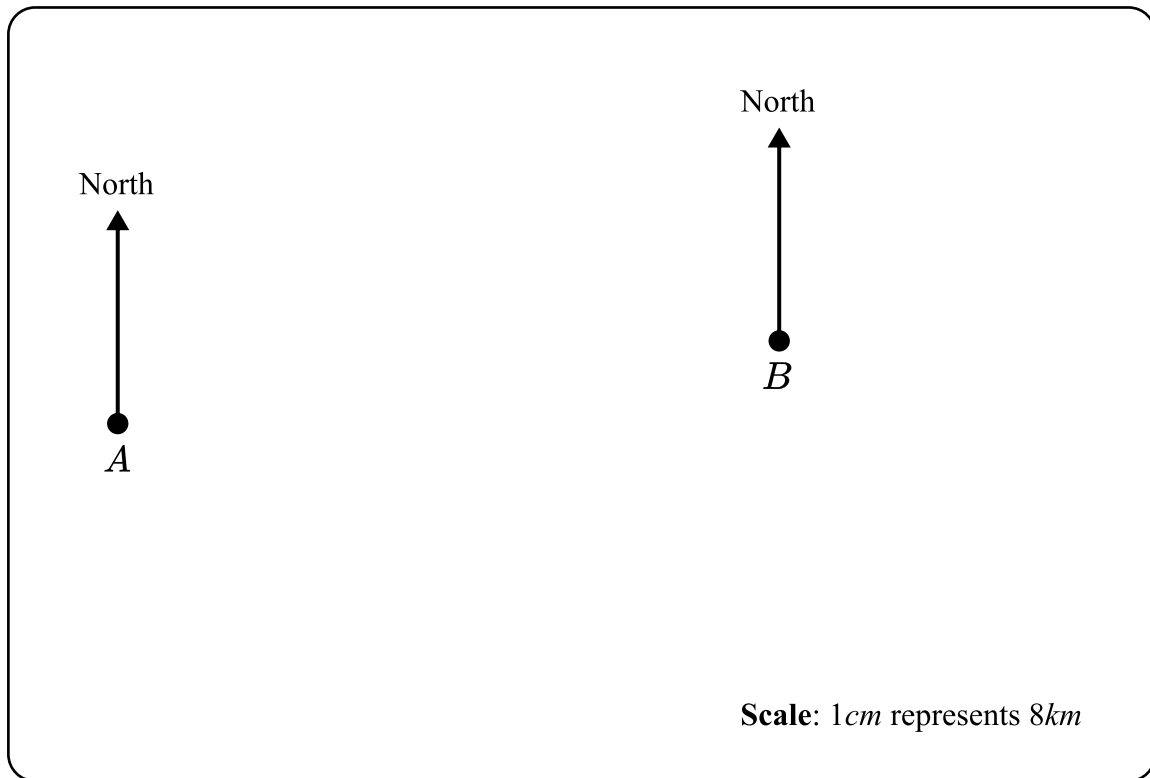
(2)

(Total for Question 28 is 5 marks)

29 The scale drawing shows town A and town B .

The scale is 1 cm represents 8 km .

Livvy needs to get to a location between town A and town B that is on a bearing of 075° from town A and 32 km from town B . Mark the location on the map and label it C .



(Total for Question 29 is 3 marks)

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