



THIRD SPACE
LEARNING

Mathematics

Paper 3

(Calculator)

Foundation Tier

AQA GCSE

SET 5

Mathematics Paper 3 (Calculator) Foundation Tier Edexcel

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.

Question	Mark
1	
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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.

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 down all the factors of 21

[1 mark]

Answer _____

(b) Write down a number that is a multiple of 3 **and** a multiple of 5

[1 mark]

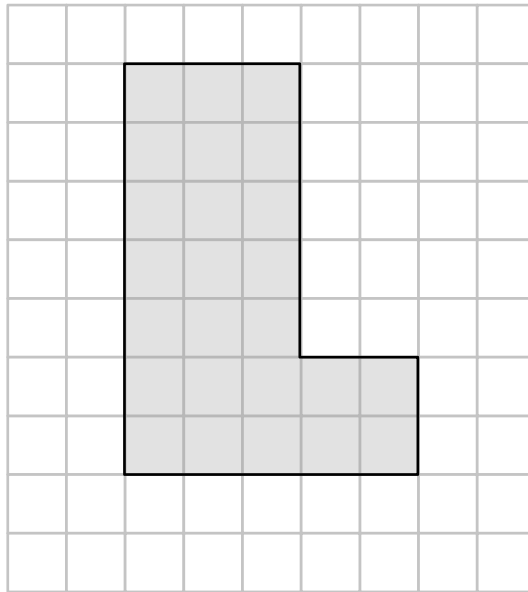
Answer _____

2 What is the time 3 hours and 15 minutes after 8.35am?

[1 mark]

Answer _____ am

3 The diagram shows a shape on a grid.



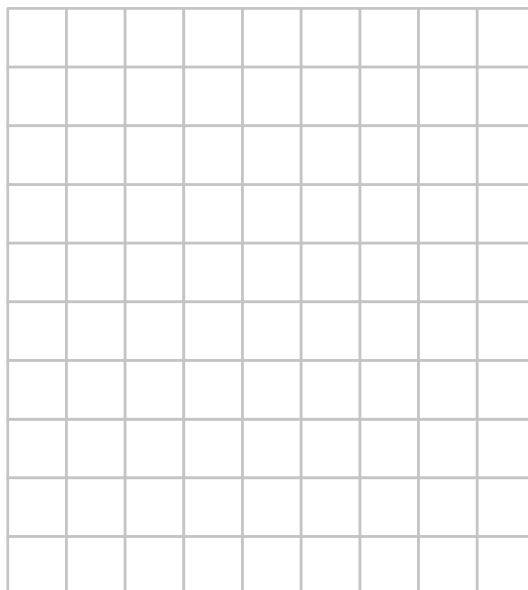
(a) Find the area of the shape.

[1 mark]

Answer _____ cm^2

(b) On the grid below, draw a rectangle that has a perimeter that is the same as the perimeter of the shape above.

[2 marks]



4 This scale drawing shows a pond.



This scale drawing shows a pond.

[4 marks]

Length _____ cm Width _____ cm

5 Christopher has 4 children.

Christopher makes each of his children a packed lunch each day, and each child gets an apple.

Christopher can buy apples in packs of 6 for 99p or individually for 18p each.

Christopher wants to buy enough apples for 5 days.

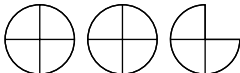
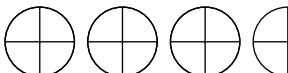
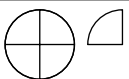
Is it cheaper for Christopher to buy packs of apples or individual apples?


Show how you decide.

[4 marks]

Answer _____

6 The pictogram shows information about the number of birds of prey at a bird of prey centre.

Owls	
Buzzards	
Red kites	
Ospreys	

Key:  = 8 birds

(a) There are 24 red kites at the centre.

Complete the pictogram.

[1 mark]

(b) Write the ratio of the number of owls to the number of buzzards in its simplest form.

[2 marks]

Answer _____ :

(c) What fraction of the birds are ospreys?

[2 marks]

Answer _____

7 (a) Write down a fraction equivalent to $\frac{1}{12}$

[1 mark]

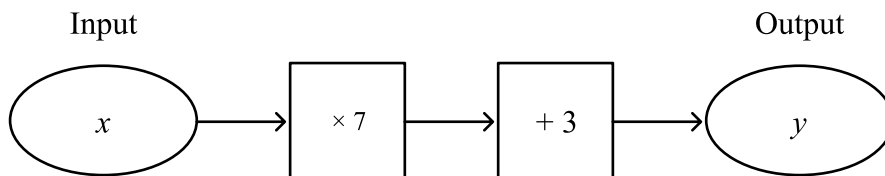
Answer _____

(b) Find a fraction that is greater than $\frac{1}{12}$ and less than $\frac{2}{12}$

[1 mark]

Answer _____

8 Here is a number machine.



Work out a formula for y in terms of x .

[2 marks]

Answer _____

9 Annie and Rebecca want to work out $4 + a^2$ when $a = -3$

Annie writes:

$$\begin{aligned} 4 + -3^2 &= 1^2 \\ &= 1 \end{aligned}$$

Rebecca writes:

$$\begin{aligned} 4 + (-3)^2 &= 4 + -9 \\ &= -5 \end{aligned}$$

Annie and Rebecca are both incorrect.

(a) Explain the mistakes they have each made.

[2 marks]

Annie

Rebecca

(b) Work out the correct answer to $4 + a^2$ when $a = -3$

[1 mark]

Answer _____

10 (a) Solve $4(3x - 2) = 52$

[2 marks]

Answer $x =$ _____

(b) Solve $\frac{4y + 1}{11} = 2$

[2 marks]

Answer $y =$ _____

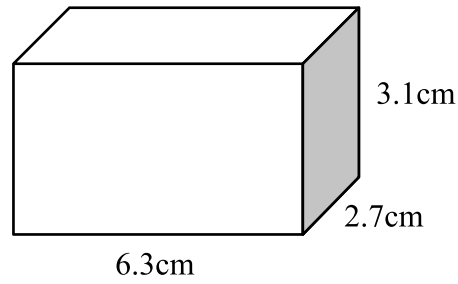
11 Write 40 hours as a fraction of 1 week.

Give your answer in its simplest form.

[2 marks]

Answer _____

12 Here is a cuboid.



Work out the volume of the cuboid.
Give your answer to 1 decimal place.

[2 marks]

Answer _____ cm^3

13 Printer A prints 12 pages per 20 seconds.
Printer B prints 11 pages per 15 seconds.

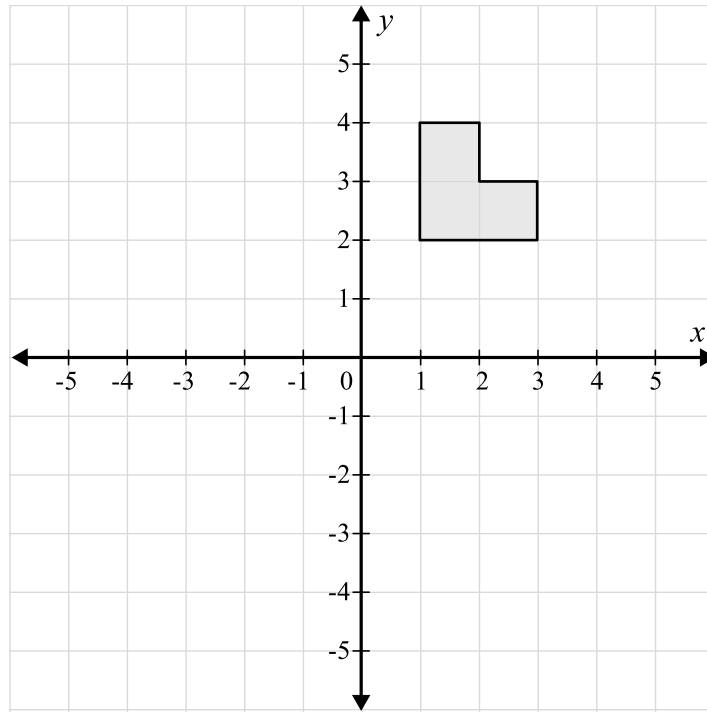
Printer A prints continuously for 8 minutes.
Printer B prints continuously for 10 minutes.

How many pages do the printers print altogether?

[4 marks]

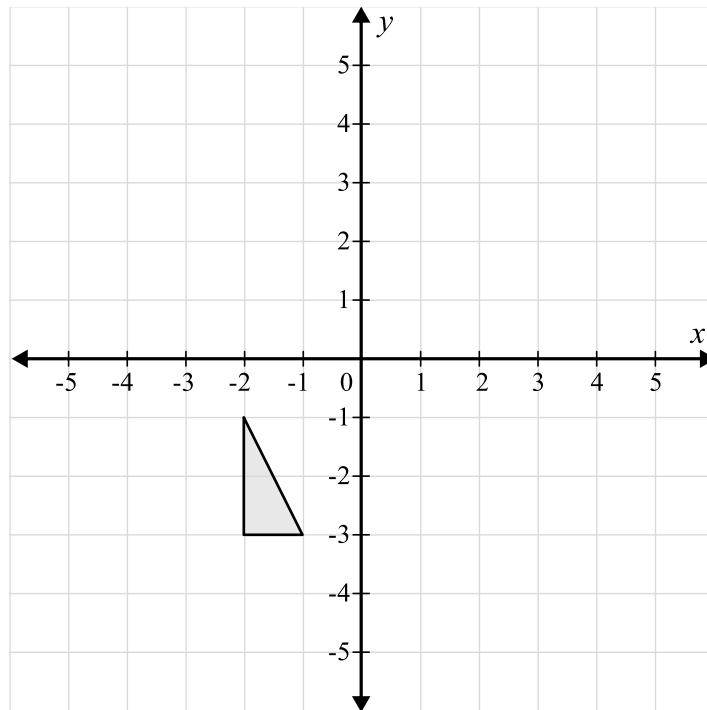
Answer _____

14



(a) On the grid above, rotate the shaded shape 90° clockwise about the point $(0, 1)$

[2 marks]



(b) On the grid above, enlarge the shaded shape by scale factor 3 from centre $(-4, -4)$

[2 marks]

15 Bobby has £350000. He wants to purchase a house.

When Bobby purchases a house, he will need to pay legal fees of £2000 as well as stamp duty tax at the following rates:

The first £120000 of the property price	No stamp duty
The second £125000 (£125000 – £250000)	2%
Anything above £250000	5%

Bobby decides he wants to buy a house for £330000.

Can Bobby afford to buy the house and pay the fees and stamp duty?

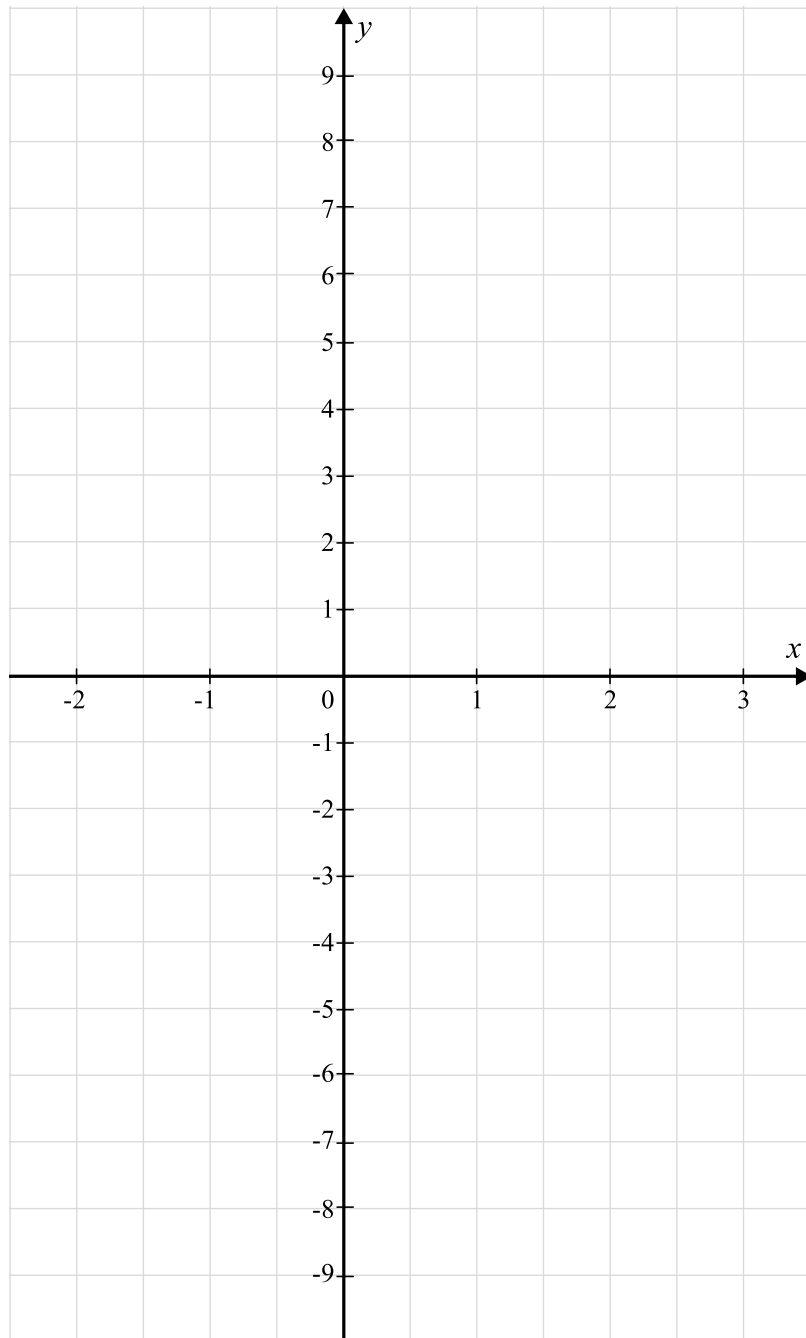
Show how you decide.

[4 marks]

Answer _____

16 On the grid below, draw the graph $y = 2x - 4$ for x from -2 to 4

[3 marks]



17 A school is going to put on exam revision sessions.

There are 220 pupils in year 11.

The school asks a sample of 40 year 11 pupils which subjects they would most like revision sessions for.

Each pupil chooses one subject.

Here are the results of the survey:

Maths	16
English	12
Science	7
French	5

(a) Work out an estimate for the number of the 220 pupils who choose maths.

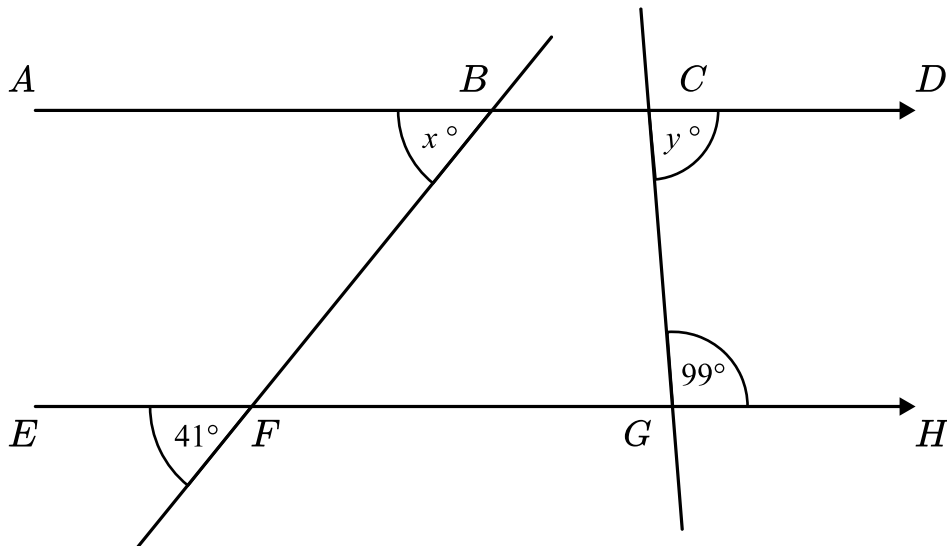
[2 marks]

Answer _____

(b) State one assumption you made in part (a).

[1 mark]

18



- (a) Write down the size of angle x
Give a reason for your answer

[2 marks]

$x =$ _____ because _____

- (b) Mike says $y = 99^\circ$
Is Mike correct? Explain your answer.

[2 marks]

19 (a) Simplify $q^7 \times q^5$

[1 mark]

Answer _____

(b) Simplify $\frac{8p^9}{4p^2}$

[2 marks]

Answer _____

(c) Write down the value of a and b if $(2m^a)^3 = bm^{12}$

[2 marks]

Answer $a =$ _____ $b =$ _____

20 (a) Ben is a hockey goalkeeper.

The probability that Ben saves a goal is 0.7.

What is the probability that Ben does not save a goal?

[1 mark]

Answer _____

(b) In one hockey season, there are 200 shots at the goal.

Work out an estimate for the number of goals Ben will save.

[1 mark]

Answer _____

21 (a) Write 0.000034 in standard form.

[1 mark]

Answer _____

(b) Write 2.71×10^4 as an ordinary number.

[1 mark]

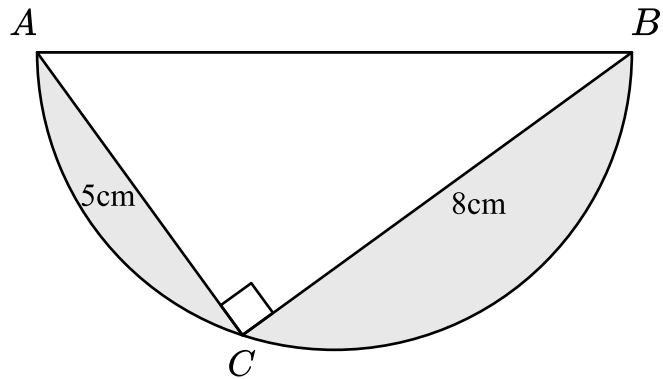
Answer _____

(c) Write the fraction $\frac{3 \times 10^8}{4.5 \times 10^9}$ in its simplest form.

[1 mark]

Answer _____

22 Here is a right angled triangle inside a semi-circle.



(a) Work out the length AB .

Give your answer to 2 decimal places.

[2 marks]

Answer _____ cm

(b) Work out the shaded area.

Give your answer to 2 decimal places.

[4 marks]

Answer _____ cm^2

- 23** The mean of three numbers is 120
 The three numbers are $3a$, $5a + 2$ and $2a + 8$
 Work out the value of the smallest number.

[4 marks]

Answer _____

- 24** Place the correct symbol to make the statement true.

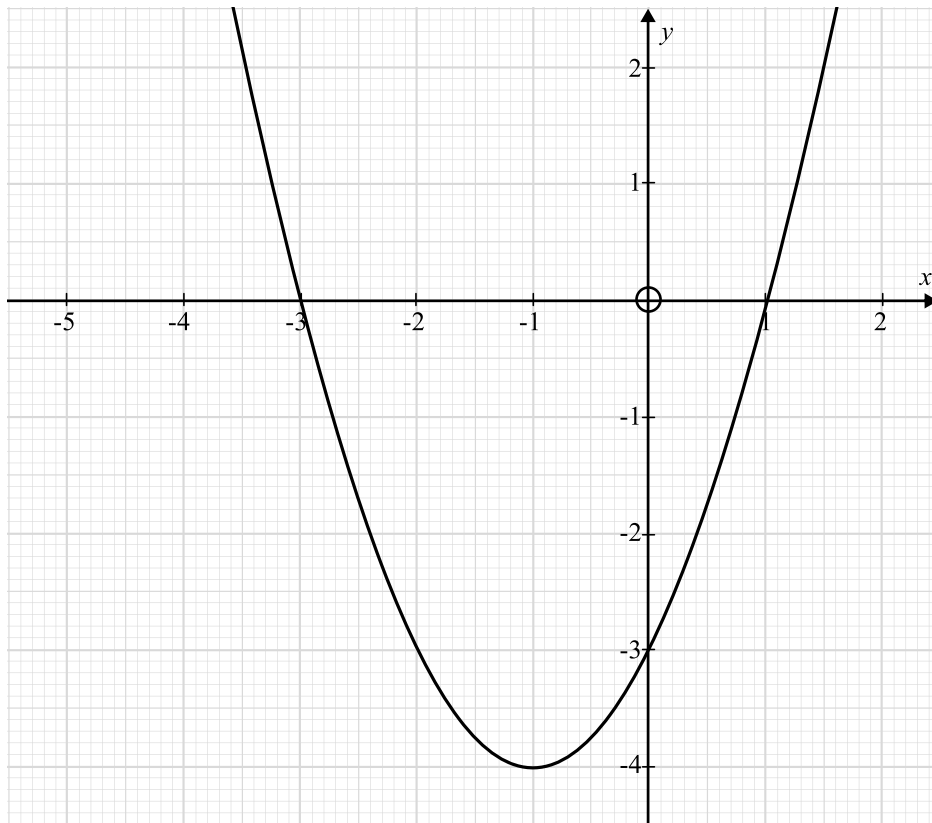
Choose from

$<$ $>$ $=$

[1 mark]

$$\frac{3}{11} \quad \underline{\hspace{2cm}} \quad 0.27$$

25 Here is the graph of $y = x^2 + 2x - 3$



(a) Write down the coordinates of the turning point on the graph of $y = x^2 + 2x - 3$

[1 mark]

Answer _____

(b) Use your graph to find the solutions to $x^2 + 2x - 3 = -3$

[2 marks]

Answer _____


End of Questions

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