



THIRD SPACE
LEARNING

Mathematics

Paper 2

(Non-Calculator)

Foundation Tier

OCR GCSE

SET 5

Mathematics Paper 2 (Non-Calculator) Foundation Tier OCR 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 not be used.

Information

- The total mark for this paper is 100
- 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.

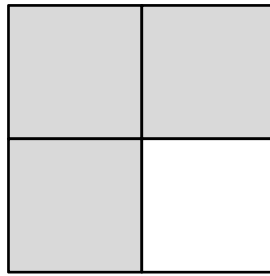
Question	Mark
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You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

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

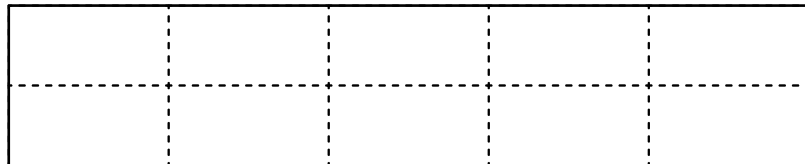
Please note, this practice paper is an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers

1 (a) Write down the percentage of this square that is shaded.



(a) % [1]

(b) Shade $\frac{3}{5}$ of this shape.



[1]

(c) Work out 70% of 40

(c) [2]

2 (a) (i) Work out $234 + 67$

(a)(i) [2]

(ii) Work out 24×7

(a)(ii) [2]

(b) Stephanie spends £3.52 at the shop.
She pays with a £5 note.
How much change does Stephanie get?

(b) [2]

3 (a) Complete the statement.

350 millimetres = centimetres [1]

(b) Complete the statement.

6 kilograms = grams [1]

(c) Complete the statement.

243 millilitres = litres [1]

4 Here is a list of numbers.

6 7 5 9 5 6 4 5 3

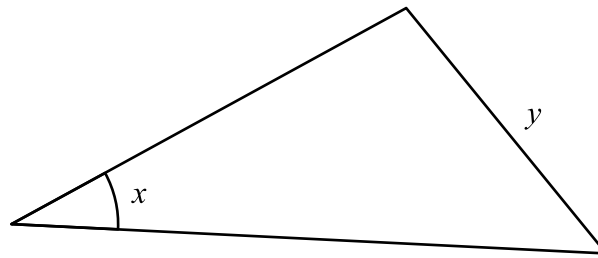
(a) Write down the mode of these numbers.

(a) [1]

(b) Find the median of the numbers.

(b) [2]

5 Here is a triangle.



(a) Measure the angle marked x .

(a) ° [1]

(b) Measure the length of the side marked y .

(b) cm [1]

6 (a) Work out $5 \times (-8)$

(a) [1]

(b) Work out $-7 - 10$

(b) [1]

(c) Work out $(-4)^2$

(c) [1]

7 Jacob records the birds he sees in his garden.

Here are the results

Blackbird	Robin	Sparrow	Magpie
Robin	Blackbird	Blackbird	Sparrow
Sparrow	Magpie	Sparrow	Blackbird
Blackbird	Magpie	Blackbird	Sparrow

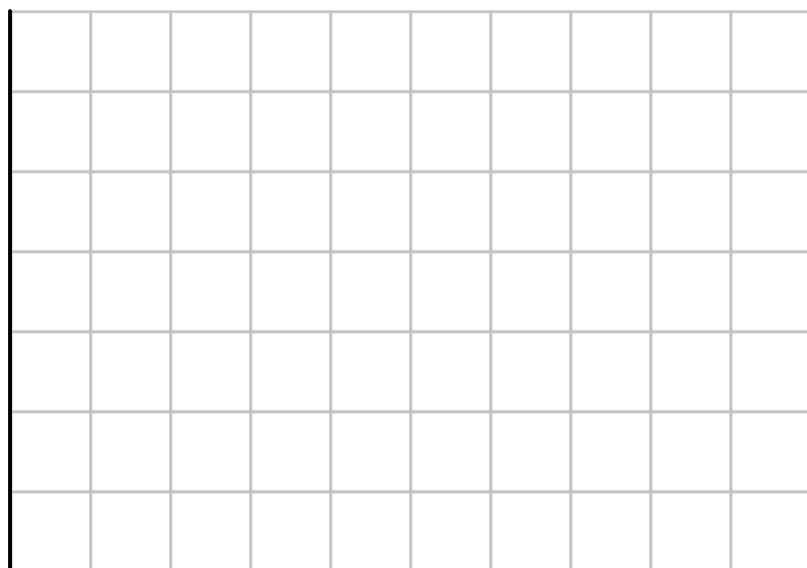
(a) Complete the frequency table

[2]

Bird	Tally	Frequency
Blackbird		
Robin		
Sparrow		
Magpie		

(b) Draw a bar chart to show the results

[3]



8 (a) Solve $n + 5 = 14$

(a) [1]

(b) Solve $\frac{p}{5} = 11$

(b) [1]

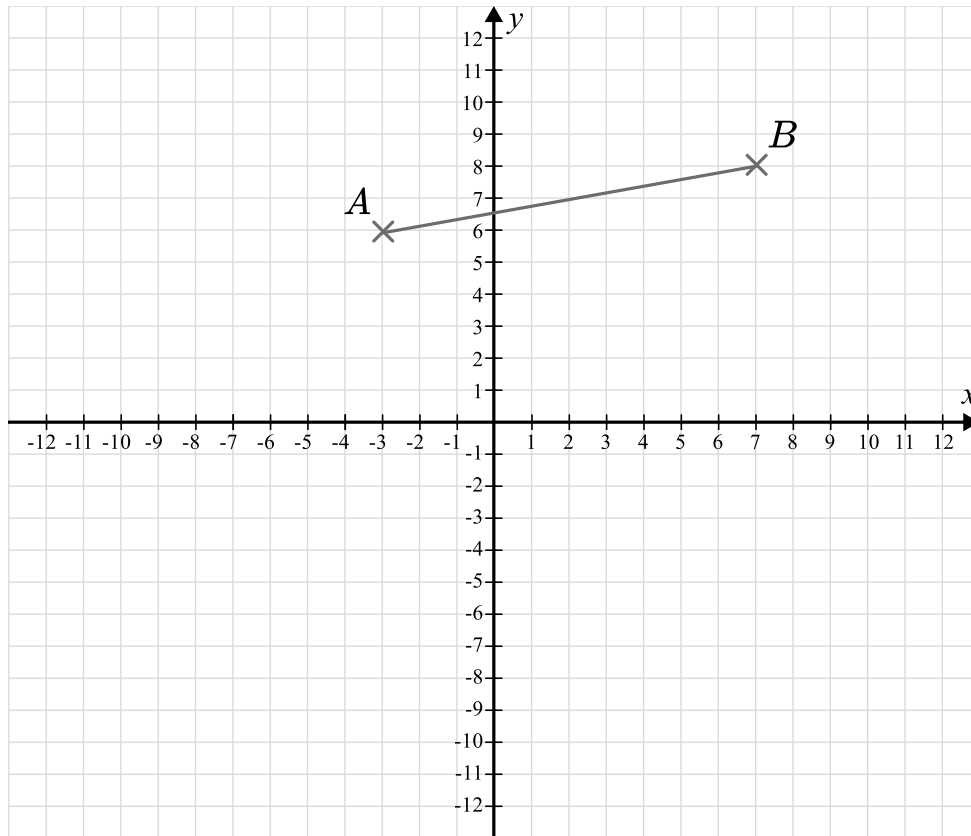
9 There are 16 boys in a class of 30.

Write as a ratio the number of boys to the number of girls.

Give your answer in its simplest form.

..... [2]

10



(a) Write down the coordinates of the midpoint of the line AB

(a) [1]

(b) Plot the point C , with coordinates $(9, -2)$

[1]

(c) $ABCD$ is a square.

Write down the coordinates of the point D

(c) [1]

11 (a) Work out the following, giving each answer as a fraction in its simplest form.

(i) $\frac{3}{5} + \frac{2}{15}$

(a)(i) [2]

(ii) $\frac{3}{10} + \frac{7}{20}$

(a)(ii) [3]

(b) Work out.

$(4.1 - \frac{4}{5}) \div 11$

Give your answer as a decimal.

(b) [3]

12 $p = 3r - 2q$

Work out the value of p when $r = 5$ and $q = 12$

..... [2]

13 (a) By writing each number correct to 1 significant figure, work out an estimate for the value of 83×2.92 .

..... [2]

(b) Natalia works out 83×2.92 on a calculator.

Natalia's answer is 2423.6

Do you think Natalia has used her calculator correctly?

Explain why.

because

.....

.....

[1]

14 Here is a list of ingredients for cupcakes

Makes 12
120g flour
100g sugar
90g butter
2 eggs

Florence wants to make 30 cupcakes.

(a) How much sugar does she need?

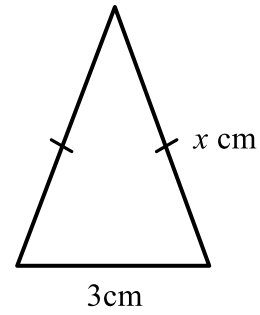
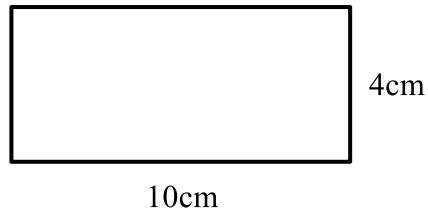
(a) [2]

(b) Nick has 450g of butter and 7 eggs.
He has plenty of the other ingredients.

Work out the maximum number of cupcakes that Nick can make.

(b) [4]

15



The perimeter of the triangle is half the perimeter of the rectangle.

Work out the value of x .

$x =$ [2]

16 (a) Work out 3^4

(a) [1]

(b) Write down the value of 9^0

(b) [1]

(c) Complete the power of 2

$$\frac{1}{16} = 2^{\square}$$

[1]

17 (a) Expand $5(2y - 3)$

(a) [1]

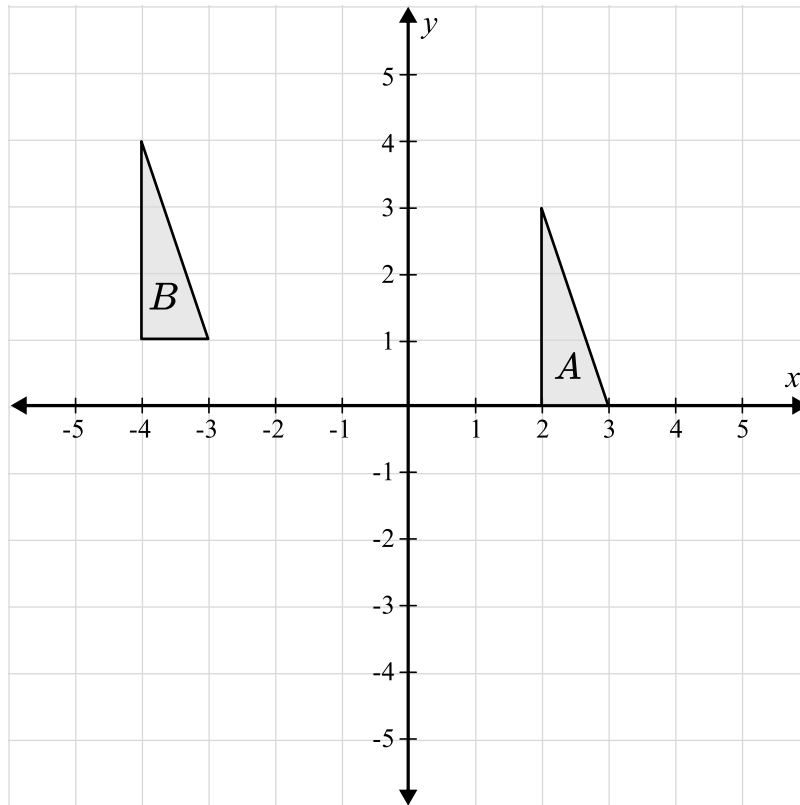
(b) Expand and simplify $4(3x - 7) - 2(x - 5)$

(b) [2]

(c) Factorise $x^2 - 7x$

(c) [1]

18 Describe the single transformation that maps triangle *A* onto triangle *B*.



[2]

19 Write 210 as a product of its prime factors.

Give your answer in index form.

----- [2]

20 40% of a number is 200.

Work out 90% of the number.

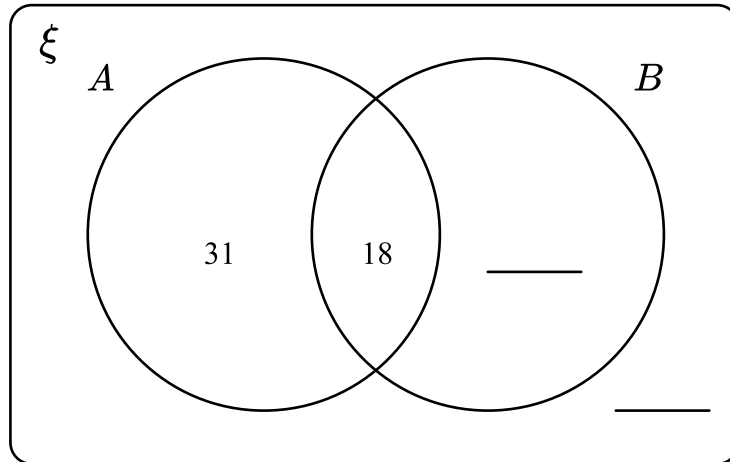
----- [2]

21 Here is a Venn diagram.

$$\xi = 80 \text{ people}$$

A = people who like apples

B = people who like bananas



(a) 40 people like bananas.

Complete the Venn diagram.

[2]

(b) One of the 80 people is chosen at random.

What is the probability that they like both apples and bananas?

(b) [1]

22 Make f the subject of the formula $g = 3f - 4$

----- [2]

23 n is an odd number.

Tick the correct box for each statement.

[4]

	Always true	Sometimes true	Never true
$2n$ is odd			
n^2 is odd			
$n^3 + n$ is odd			
$(5n - 2)^2$ is odd			

24 A garden centre sells lilies, roses and tulips.

Here is some information about the number of plants sold in one day.

The ratio of lilies to roses sold was 3:2.

The ratio of roses to tulips sold was 5:4.

Lilies, roses and tulips made up $\frac{11}{20}$ of the plants sold that day.

Altogether 180 plants were sold.

Work out the number of lilies sold that day.

----- [4]

25 Write these numbers in order of size, starting with the smallest.

3.15×10^4

3.15×10^{-2}

3.15×10^{-1}

3150

Smallest

Largest

[2]

26 In a sale, prices are reduced by 40%

The sale price of a laptop is £360

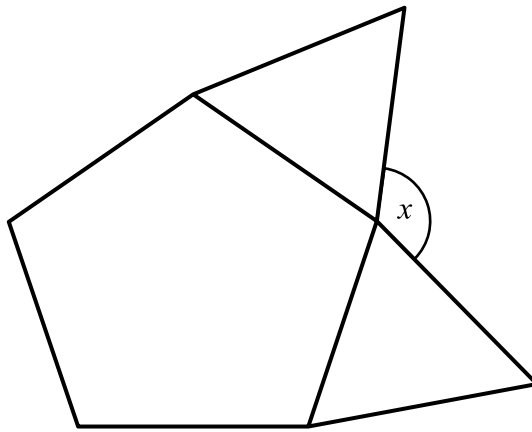
Work out the original price of the laptop

£ ----- [2]

27 Write down the value of $\sin 60$

----- [1]

28 Here is a regular pentagon and two equilateral triangles.



Show that angle x is 132°

[3]

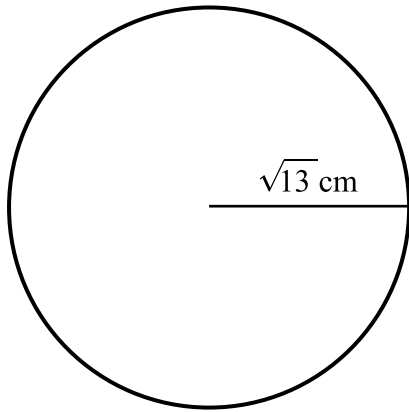
29 Work out the value of $\frac{5^5 \times 5^{-2}}{5}$

----- [2]

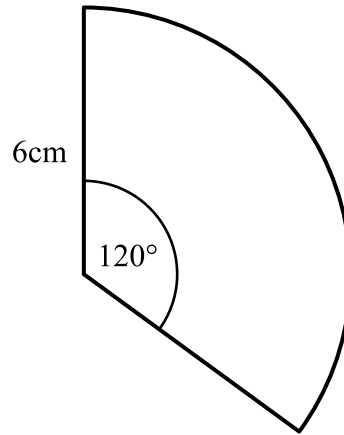
30 Shape A is a circle with radius $\sqrt{13}$ cm

Shape B is a sector of a circle with radius 6cm.

Shape A



Shape B



Not drawn
accurately

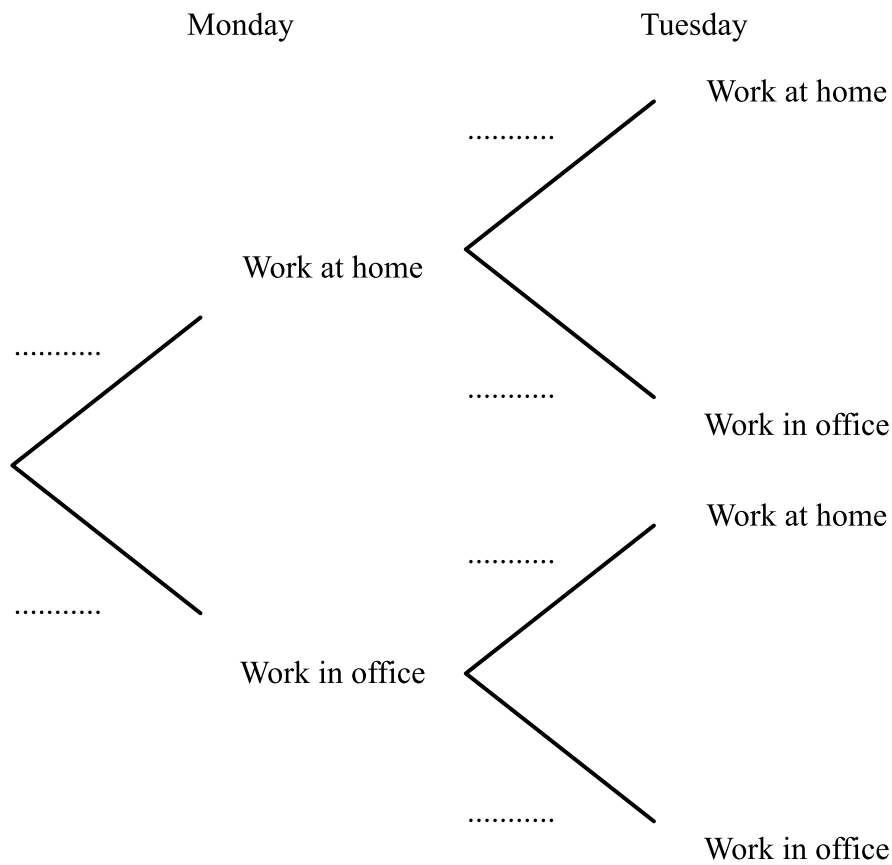
Which shape has the greater area, A or B ?

You must show your working.

----- [4]

31 The probability that Faraz will work from home on any given day is p .

The probability that Faraz works at home on Monday and Tuesday is $\frac{49}{100}$



(a) Complete the tree diagram

[3]

(b) Work out the probability that Faraz works in the office on exactly one of the two days.

----- [3]


End of Questions

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