THIRD SPACE LEARNING

# Mathematics Paper 1 (Non-Calculator) Foundation Tier

## Edexcel GCSE

## SET 5

# For teachers

Students are marking a completed paper rather than sitting it, so there is no time limit. Use the separate mark scheme to check their decisions and the marks they award.

- **Whole class:** display a page and mark it together, pausing to discuss each error.
- **In pairs:** one student marks while the other checks against the mark scheme, then they swap.
- **Independent revision or intervention:** students answer the questions themselves first, or focus on the topics they need to revisit.

**This paper is based on the topics in the advance information for the November 2026 exam series. It is not possible to predict the content of the real exams, so students should continue to revise the full specification.**

# Instructions

A student has sat this practice paper. Some of their answers are correct, but others contain mistakes – in the method, the working or the final answer.

**Work through the paper as if you were the examiner:**

- Decide whether each answer is correct or incorrect.
- For each incorrect answer, find the point where the mistake happens and explain what went wrong.
- Write out the correct working and answer.
- Use the mark scheme to check your decisions and award the marks the student would have earned.

Not every answer is wrong, so be ready to explain why a correct answer is correct.

# Mathematics Paper 1 (Non-Calculator) Foundation Tier

# Edexcel GCSE SET 5

**Name**

**Total marks**

**Paper length:** 1hr 30mins



| Question | Mark |
|---|---|
| 1 | |
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| 27 | |
| 28 | |
| 29 | |
| 30 | |
| 31 | |

## 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.

**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** Write down the mode of these numbers

6 7 5 9 5 6 4 5 3

5

**(Total for Question 1 is 1 mark)**

---

**2** Work out 234 + 67

$$\begin{array}{r} 234 \\ +\ 67 \\ \hline 291 \end{array}$$

291

**(Total for Question 2 is 1 mark)**

---

**3** Write down a multiple of 8 between 20 and 30

Multiples of 8: 8, 16, (24) 32

24

**(Total for Question 3 is 1 mark)**

---

**4** Change 350mm into cm.

$350 \times 10 =$

3500 *cm*

**(Total for Question 4 is 1 mark)**

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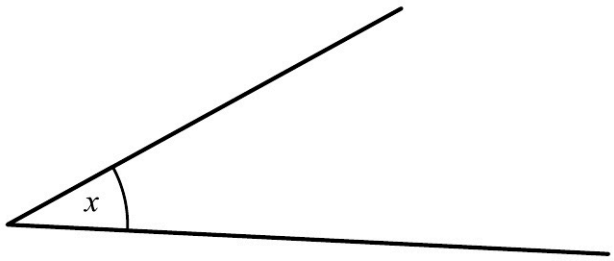
**5** Measure the angle marked $x$




32 °

**(Total for Question 5 is 1 mark)**

---

**6** Emma goes on a trip to Dublin.

She spends £68 on flights

£110 on a hotel room

£35 on food.

£68 + £110 + £35
= £213

Emma had a total of £300 to spend on the trip.

How much does Emma have left to spend?

£ 213

**(Total for Question 6 is 3 marks)**

---

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7 Jacob records the birds he sees in his garden.

Here are the results.

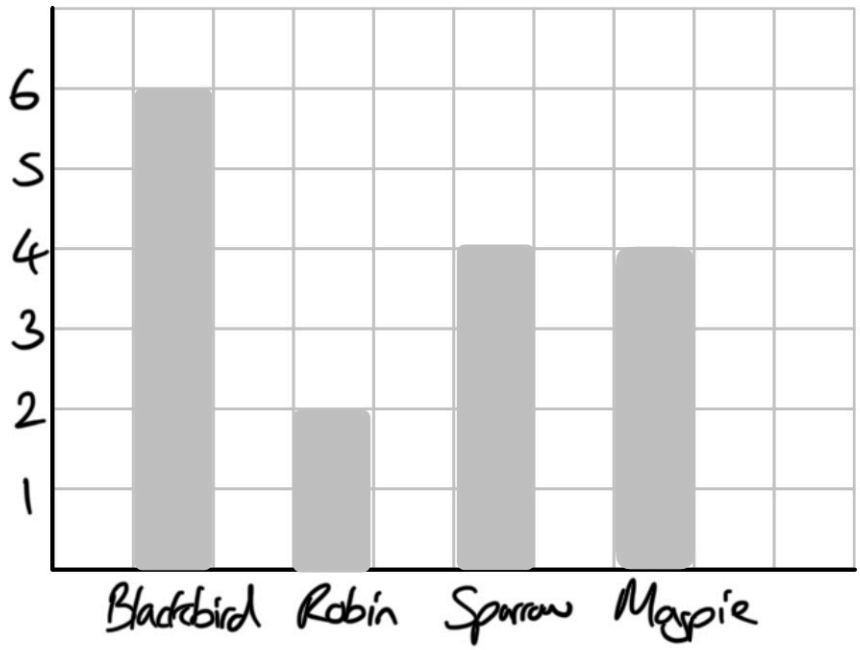
| | | | |
|---|---|---|---|
| Blackbird | Robin | Sparrow | Magpie |
| Robin | Blackbird | Blackbird | Sparrow |
| Sparrow | Magpie | Sparrow | Blackbird |
| Blackbird | Magpie | Blackbird | Sparrow |

**(a)** Complete the frequency table.

| Bird | Tally | Frequency |
|---|---|---|
| Blackbird | 𝍸 I | 6 |
| Robin | II | 2 |
| Sparrow | 𝍸 | 5 |
| Magpie | III | 3 |

**(2)**

**(b)** Draw a bar chart to show the results.




**(3)**

**(Total for Question 7 is 5 marks)**

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

$n =$ 19

**(1)**

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

$q =$ 55

**(1)**

**(Total for Question 8 is 2 marks)**

---

**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.

Boys : 16

Girls : 30 − 16 = 14

14 : 16

**(Total for Question 9 is 2 marks)**

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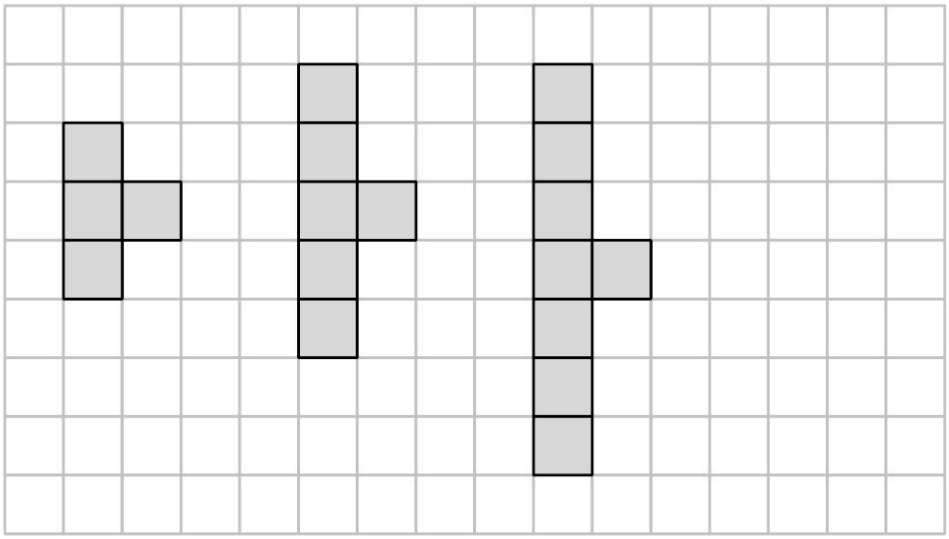
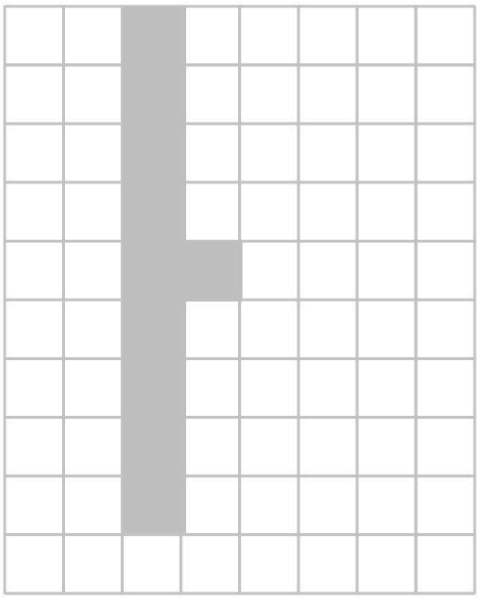
**10** Here is a sequence of patterns made from square tiles.



Pattern number 1 | Pattern number 2 | Pattern number 3

**(a)** On the grid draw pattern number 4



**(1)**

**(b)** Complete the table.

| Pattern number | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Number of tiles | 4 | 6 | 8 | 10 | 12 |

**(1)**

**(Total for Question 10 is 2 marks)**

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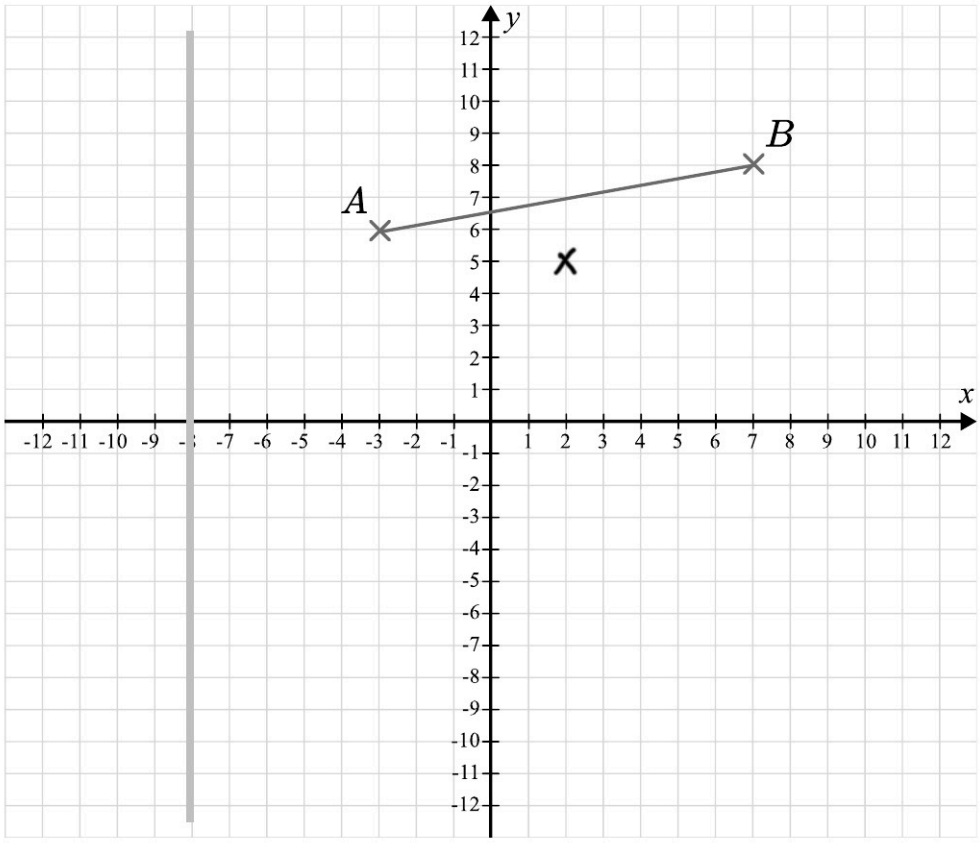
**11**




**(a)** Write down the coordinates of point $A$.

( 6 , -3 )

**(1)**

**(b)** Plot the point with coordinates $(5, -2)$

**(c)** Write down the coordinates of the midpoint of the line $AB$. **(1)**

( 2 , 7 )

**(1)**

**(d)** Draw the line with equation $y = -8$

**(1)**

**(Total for Question 11 is 4 marks)**

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**12** **(a)** Work out $\frac{3}{5} + \frac{2}{15}$

$\frac{6}{20}$

**(2)**

**(b)** Work out $\frac{4}{5} \times \frac{3}{8}$

Give your answer as a fraction in its simplest form.

$\frac{12}{40}$

**(2)**

**(Total for Question 12 is 4 marks)**

---

**13** $p = 3r - 2q$

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

$p = 3(5) - 2(12)$
$= 15 - 24$
$= -9$

$-9$

**(Total for Question 13 is 2 marks)**

---

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**14** Work out an estimate for the value of $83 \times 2.92$

You must show all of your working.

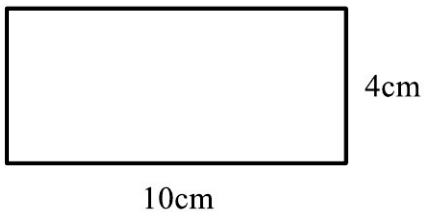
$\approx 80 \times 2$

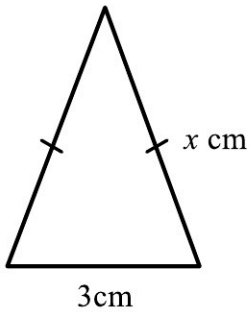
160

**(Total for Question 14 is 2 marks)**

---

**15**




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

Work out the value of $x$.

Perimeter of rectangle $= 10+10+4+4$
$= 28$

Perimeter of triangle $= 14 = x+3$

$x =$ 11

**(Total for Question 15 is 4 marks)**

---

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**16** Here is a list of ingredients for cupcakes

| **Makes 12** |
| --- |
| 120g flour |
| 100g sugar |
| 90g butter |
| 2 eggs |

Florence wants to make 30 cupcakes.

How much sugar does she need?

12 cupcakes = 100g sugar (÷2)

6 cupcakes = 50g sugar (×5)

30 cupcakes = 250g sugar

250 g

**(Total for Question 16 is 2 marks)**

---

**17** **(a)** Work out $2^4$

8

**(1)**

**(b)** Write down the value of $9^0$

0

**(1)**

**(Total for Question 17 is 2 marks)**

---

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**18** **(a)** Expand $5(2y - 3)$

$10y - 15$

**(1)**

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

$12x - 28 - 2x - 10$

$10x - 38$

**(2)**

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

$(x + 7)(x - 7)$

**(1)**

**(Total for Question 18 is 4 marks)**

---

**19** Cari buys a table for £80

She sells the table for £96

Find Cari's percentage profit.

£96 - £80 = £16

$\frac{16}{100} = 16\%$

16 %

**(Total for Question 19 is 3 marks)**

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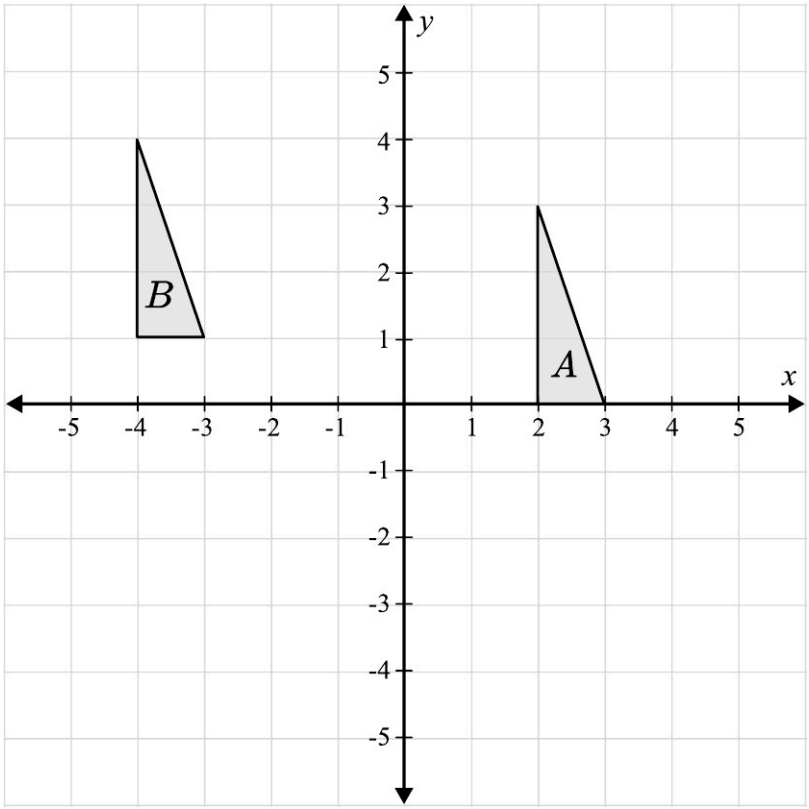
**20** Describe the single transformation that maps triangle $A$ onto triangle $B$.




Translation with $\begin{pmatrix} 6 \\ -1 \end{pmatrix}$

**(Total for Question 20 is 2 marks)**

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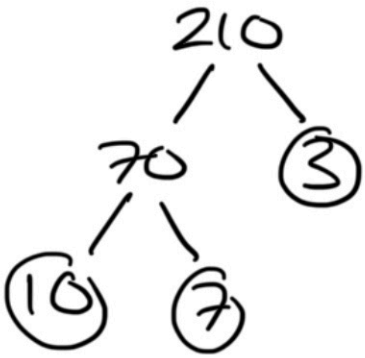
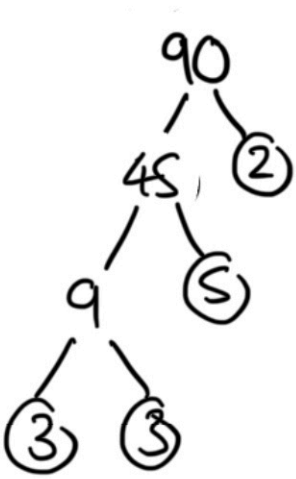
**21** **(a)** Write 210 as a product of its prime factors.




3×7×10

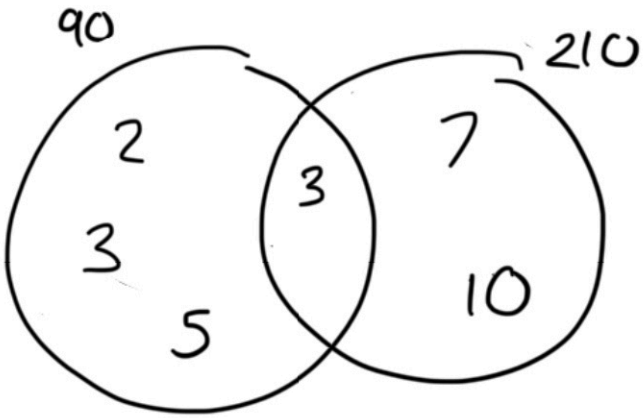
**(2)**

**(b)** Find the highest common factor (HCF) of 210 and 90




90 = 2×~~3~~×3×5

210 = ~~3~~×7×10




3

**(2)**

**(Total for Question 21 is 4 marks)**

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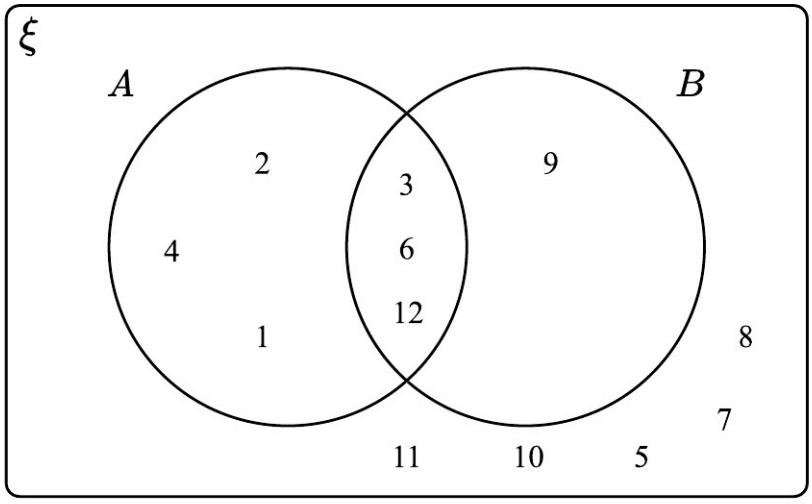
**22** Here is a Venn diagram




**(a)** Write down the numbers that are in the set A'.

1, 2, 3, 4, 6, 12

**(1)**

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

Find the probability that the number is in the set A ∩ B.

$\frac{3}{12}$

**(2)**

**(Total for Question 22 is 3 marks)**

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**23** 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.

$\frac{11}{20}$ of 180 = 99

L : R : T

3 : 2

5 : 4

15 : 10 : 8

15 + 10 + 8 = 33

33

**(Total for Question 23 is 4 marks)**

---

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

$g = 3f - 4$

$\frac{g}{3} = f - 4$

$\frac{g}{3} + 4 = f$

$f = \frac{g}{3} + 4$

**(Total for Question 24 is 2 marks)**

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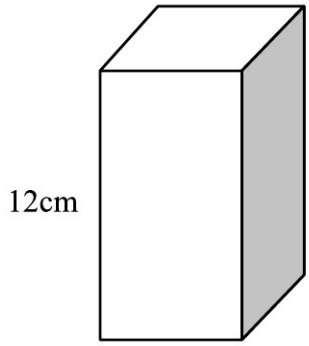
**25** The diagram shows a cuboid on a table.




$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

The volume of the cuboid is $144\text{cm}^3$.

The cuboid exerts a force of 96 Newtons on the table.

Calculate the pressure on the table due to the cuboid.

$144 \div 12 = 12$

Area of base $= 12\text{cm}^2$

$$\text{Pressure} = \frac{12}{96}$$

$\frac{12}{96}$ $\text{N/cm}^2$

**(Total for Question 25 is 3 marks)**

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

$3.15 \times 10^{4}$ $3.15 \times 10^{-2}$ $3.15 \times 10^{-1}$ 3150

$3.15 \times 10^{-1}$, $3.15 \times 10^{-2}$, $3.15 \times 10^{4}$, 3150

**(Total for Question 26 is 2 marks)**

---

**27** In a sale, prices are reduced by 40%

The sale price of a laptop is £360

Work out the original price of the laptop.

£360 = 40%

£ 90 = 10%

£ 900 = 100%

£ 900

**(Total for Question 27 is 2 marks)**

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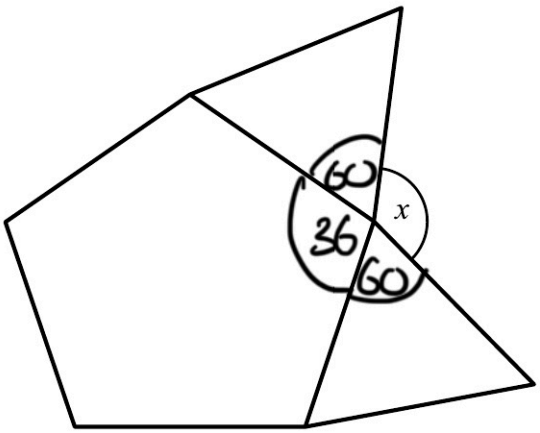
**28** Here is a regular pentagon and two equilateral triangles.




Show that angle $x$ is 132°

One angle in a regular pentagon = $\frac{180}{5} = 36$

One angle in an equilateral triangle = 60

60
60
36
156

360
−156
204

$x = 204$

**(Total for Question 28 is 3 marks)**

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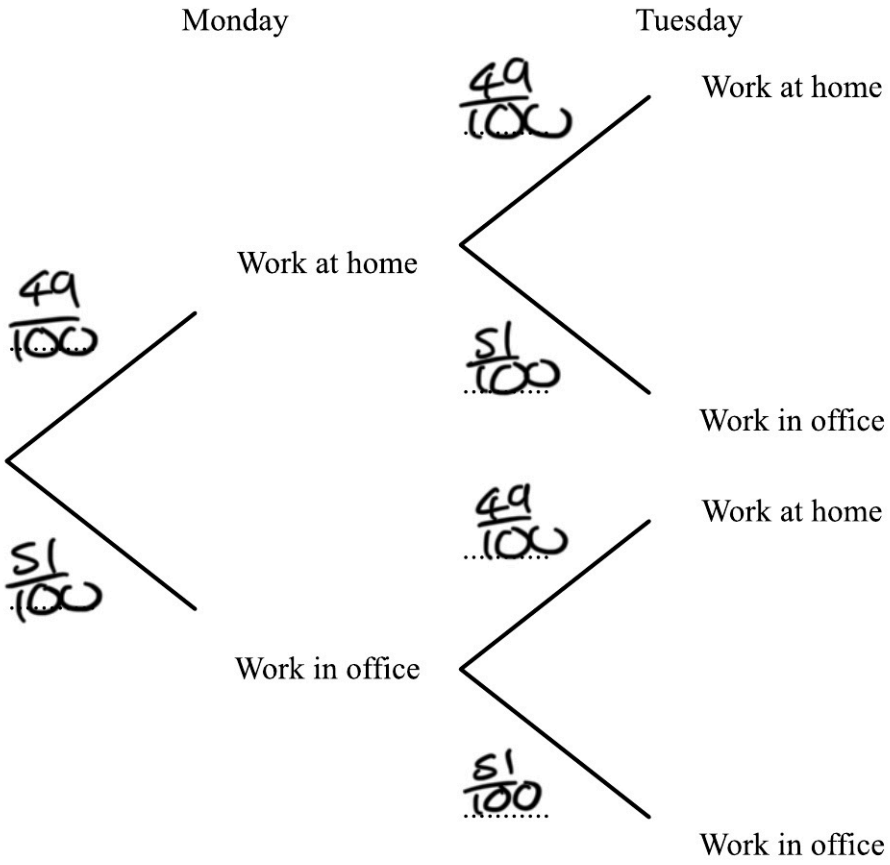
**29** The probability that Faraz will work from home on any given day is $p$.

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.

51/100

**(3)**

**(Total for Question 29 is 6 marks)**

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**30** Write down the value of sin 60

$\sqrt{3}$

**(Total for Question 30 is 1 mark)**

---

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

$$\frac{5^5 \times 5^{-2}}{5}$$

$$= \frac{5^3}{5}$$

$$= 5^2$$

25

**(Total for Question 31 is 2 marks)**

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