

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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**Pearson Edexcel Level 1/Level 2 GCSE (9–1)**

**Friday 7 November 2025**

Morning (Time: 1 hour 30 minutes)

Paper  
reference

**1MA1/2F**

**Mathematics**  
**PAPER 2 (Calculator)**  
**Foundation Tier**



**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, calculator, Formulae Sheet (enclosed). Tracing paper may be used.

Total Marks

## Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **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.**
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

## 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.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Here is a list of temperatures in °C.

5      -2      -13      1      14      -8

From the list, write down the lowest temperature.

..... °C

(Total for Question 1 is 1 mark)

2 Write  $3\frac{1}{2}$  hours in minutes.

..... minutes

(Total for Question 2 is 1 mark)

3 Find the cube of 4

.....

(Total for Question 3 is 1 mark)

4 Write down a factor of 24 that is an odd number.

.....

(Total for Question 4 is 1 mark)

5 Write down the value of the 6 in the number 2.165

.....

(Total for Question 5 is 1 mark)

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6 Here are the heights, in cm, of 10 boys.

71      79      87      96      103      109      112      118      124      131

(a) Find the median.

..... cm  
(2)

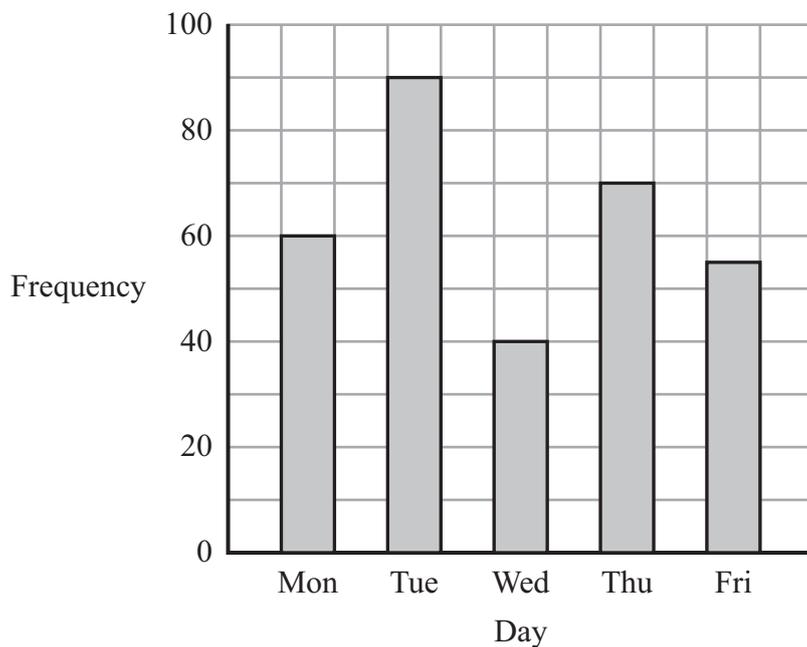
One of these boys is chosen at random.

(b) Write down the probability that this boy has a height greater than 130 cm.

.....  
(1)

(Total for Question 6 is 3 marks)

7 The bar chart shows information about the number of tickets sold at a museum on each of five days last week.



Work out the total number of tickets sold at the museum on these five days.

.....

(Total for Question 7 is 2 marks)



- 8 Last year a garage sold a total of 380 cars.  
75% of these cars were petrol cars.

(a) How many of these 380 cars were **not** petrol cars?

.....  
(3)

Last year the garage sold a total of 56 vans.

7 of these vans were petrol vans.

18 of these vans were diesel vans.

The rest of the vans were electric vans.

(b) Write the number of electric vans sold as a fraction of the total number of vans sold.

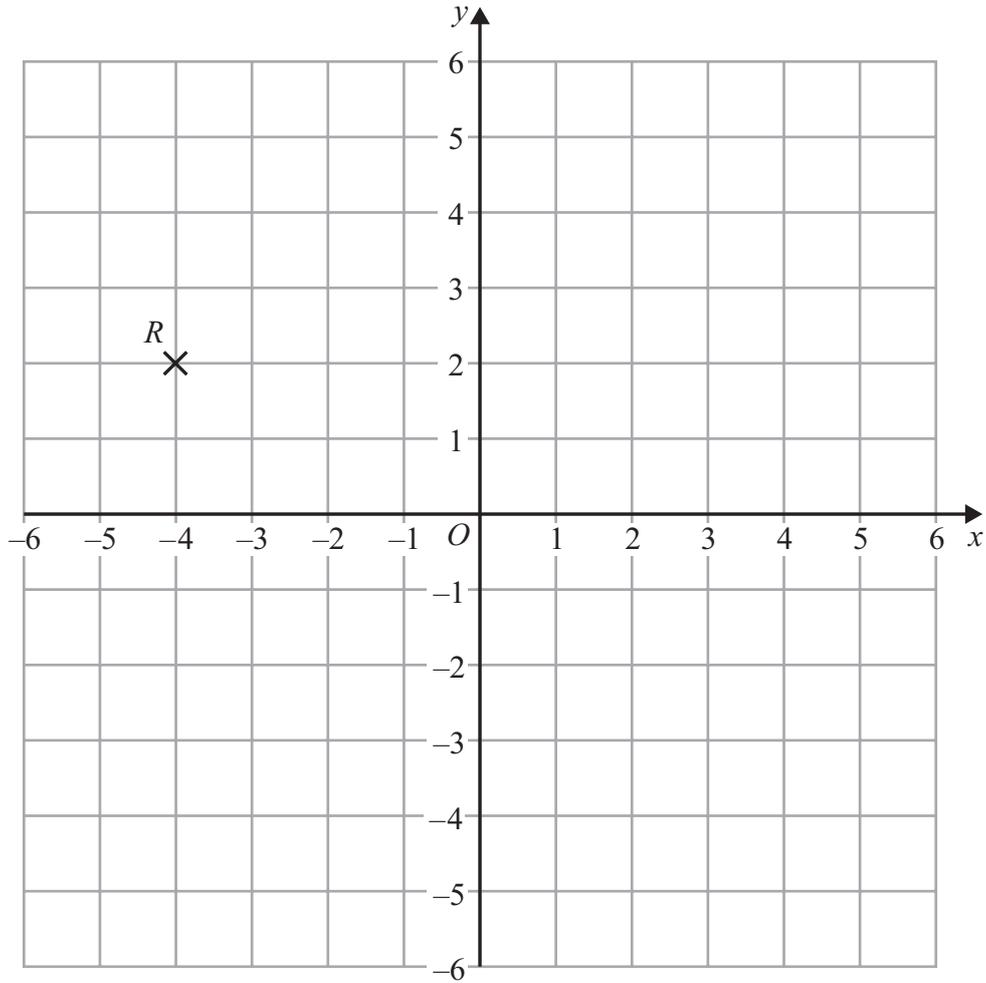
.....  
(2)

**(Total for Question 8 is 5 marks)**

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9



(a) Write down the coordinates of point  $R$ .

(....., .....)  
(1)

(b) On the grid, mark with a cross (X) the point with coordinates  $(3, -5)$   
Label this point  $S$ .

(1)

(c) On the grid, draw the line with equation  $y = 4$

(1)

(Total for Question 9 is 3 marks)

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10 (a) Write  $\frac{9}{2}$  as a mixed number.

.....  
(1)

(b) Write 5.3652 correct to 2 decimal places.

.....  
(1)

(c) Write the following numbers in order of size.  
Start with the smallest number.

0.8      63%       $\frac{35}{100}$       0.08       $\frac{7}{10}$

.....  
(2)

(Total for Question 10 is 4 marks)

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- 11 Jaz has  
50 small cakes  
1 medium cake  
1 large cake.

She wants to put ribbon around each cake.

Each small cake needs a ribbon of length 23 cm.  
The medium cake needs a ribbon of length 84 cm.

The large cake needs a ribbon that is 3 times the length of the ribbon needed for the medium cake.

Jaz thinks a total of 15 m of ribbon will be enough.

Is Jaz correct?

You must show how you get your answer.

(Total for Question 11 is 5 marks)



12 (a) Simplify  $6x - 5y - 4x + 12y$

.....  
(2)

Pablo thinks of a number,  $n$ .

He subtracts 8 from the number.  
He then divides by 3

The answer is the number  $k$ .

(b) Write down a formula for  $k$ , in terms of  $n$ .

.....  
(2)

(Total for Question 12 is 4 marks)

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13 160 people are asked if they are vegetarian.

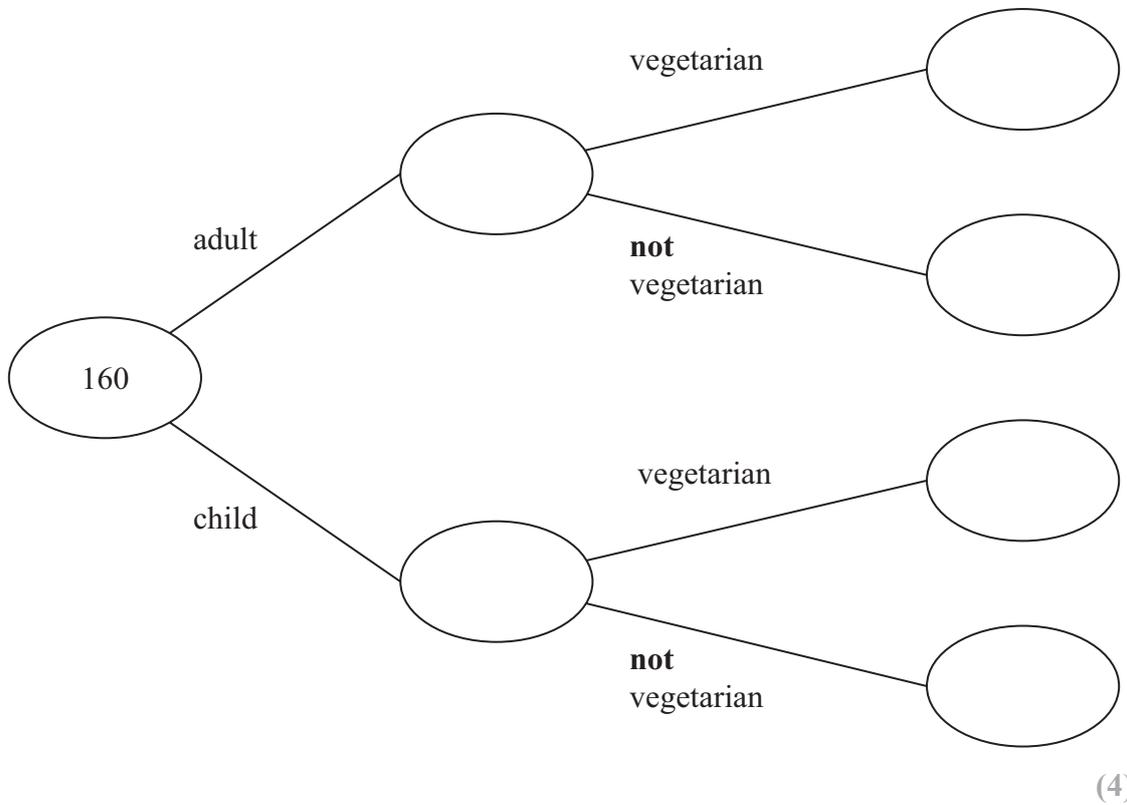
105 of these people are adults.

The rest of these people are children.

37 of the children are **not** vegetarian.

40% of the 160 people are vegetarian.

(a) Use this information to complete the frequency tree.



(4)

One of the people that is **not** vegetarian is chosen at random.

(b) Find the probability that this person is an adult.

.....  
(2)

(Total for Question 13 is 6 marks)



- 14 A field has a width of 140 metres.  
It has a length of 205 metres.

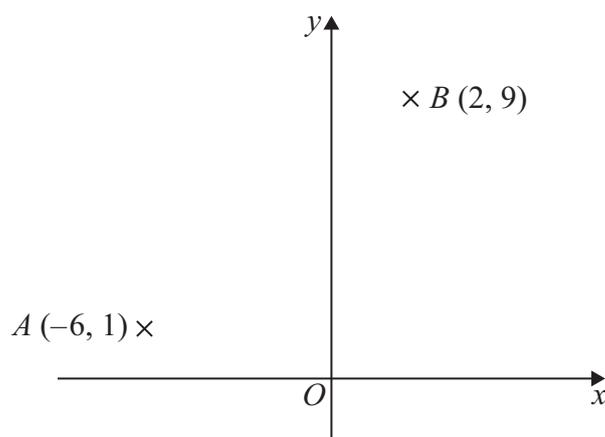
On a scale drawing, the field has a width of 5.6 centimetres.

Work out, in centimetres, the length of the field on the scale drawing.

..... centimetres

(Total for Question 14 is 3 marks)

15



Work out the coordinates of the midpoint of AB.

(....., .....) )

(Total for Question 15 is 2 marks)

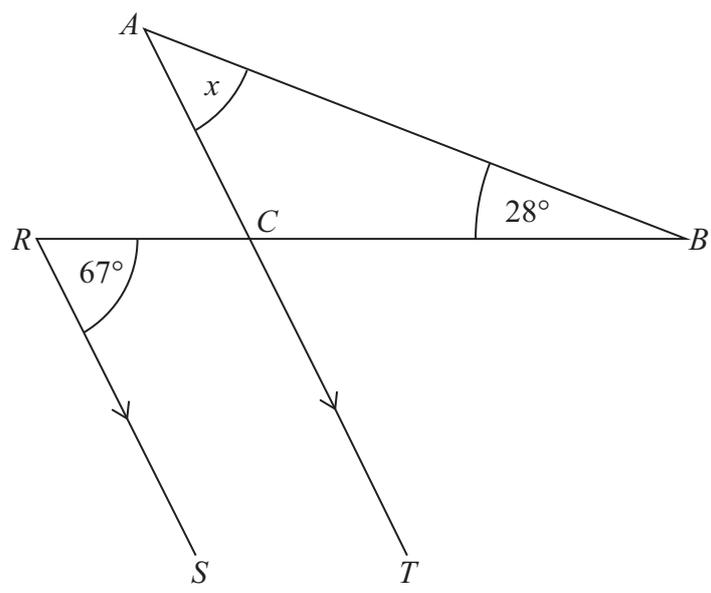


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16  $ABC$  is a triangle.

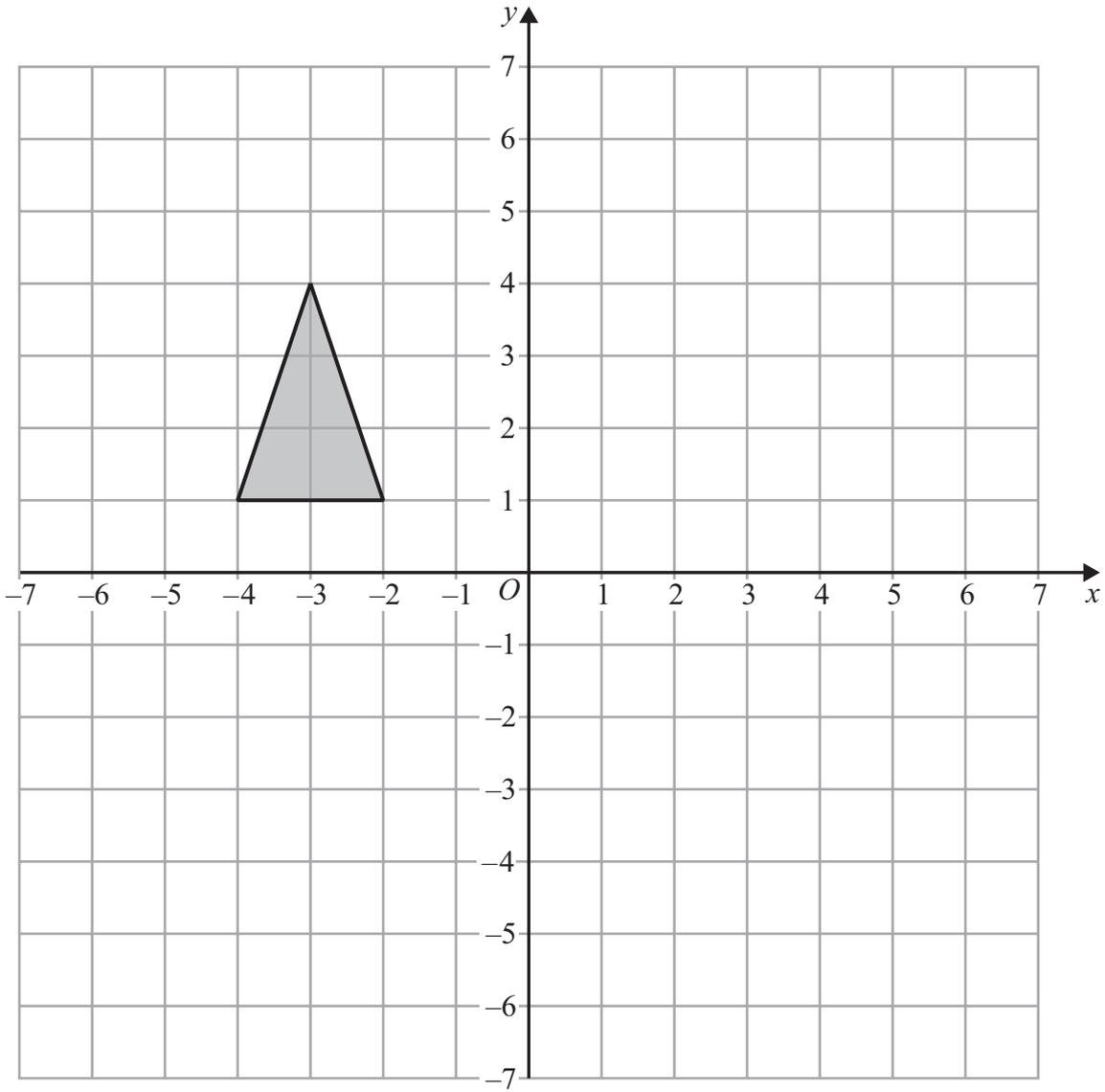


$RS$  and  $ACT$  are parallel lines.  
 $RCB$  is a straight line.

Work out the size of the angle marked  $x$ .

(Total for Question 16 is 3 marks)





(a) Rotate the shaded shape  $90^\circ$  clockwise about  $(-3, -5)$

(2)

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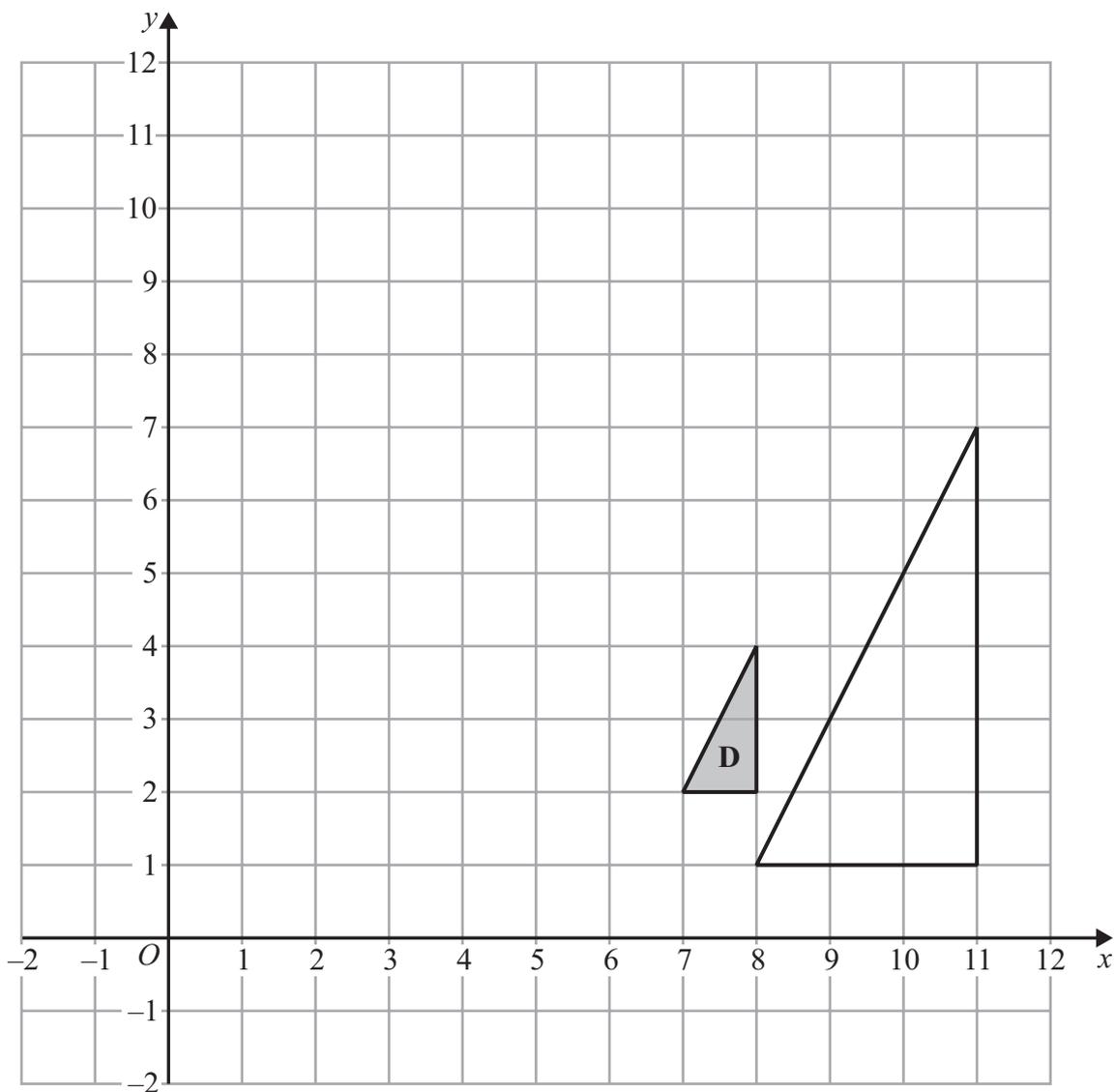
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Tamir is asked to enlarge shape **D** by a scale factor of 3 with centre of enlargement (11, 1)

Here is his answer.



(b) Write down a mistake that Tamir has made.

.....

.....

.....

(1)

(Total for Question 17 is 3 marks)



P 7 8 2 3 7 A 0 1 3 2 0

18 (a) Write  $5.63 \times 10^7$  as an ordinary number.

.....  
(1)

(b) Write 0.000 035 4 in standard form.

.....  
(1)

(Total for Question 18 is 2 marks)

19  $A = 2 \times 15$   
 $B = 8 \times 5 \times 7$

Write  $AB$  as a product of its prime factors.

.....  
(Total for Question 19 is 2 marks)

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20 There are only black pens, green pens, red pens, pink pens and orange pens in a box.

Kate is going to take at random a pen from the box.

The table shows the probability that the pen will be red.

<b>Colour</b>	black	green	red	pink	orange
<b>Probability</b>			0.27		

number of black pens : number of green pens : number of red pens = 5 : 2 : 3

The number of pink pens is four times the number of orange pens.

Work out the probability that the pen will be black or pink.

.....  
(Total for Question 20 is 5 marks)



- 21** Trains to London leave a train station every 26 minutes.  
Trains to Cardiff leave the same train station every 30 minutes.

A train to London and a train to Cardiff both leave the train station at 7:45 am.

Show that the next time a train to London and a train to Cardiff both leave the train station at the same time is after 2 pm.

(Total for Question 21 is 3 marks)

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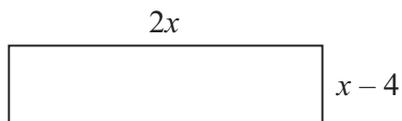
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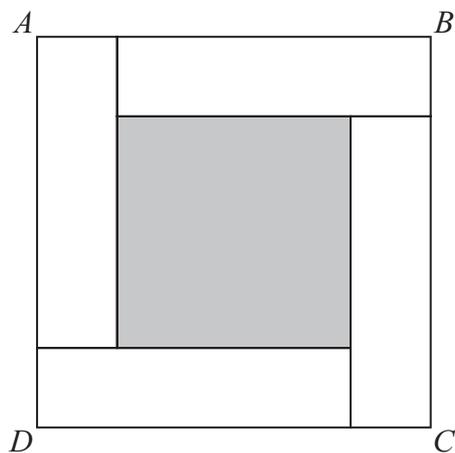


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22 Here is a rectangle.



Four of these rectangles and a shaded square are used to make the square  $ABCD$  below.



The perimeter of square  $ABCD$  is 74 cm.

Work out the perimeter of the shaded square.

..... cm

(Total for Question 22 is 5 marks)



- 23 The number of diesel cars sold in the UK decreased by 13% between 2021 and 2022  
The number of diesel cars sold in the UK in 2022 was 160 950

Calculate the number of diesel cars sold in the UK in 2021

.....  
(Total for Question 23 is 2 marks)

- 24 450 grams of flour is mixed with 180 grams of butter to make 630 grams of pastry mix.

The density of the flour is  $0.6 \text{ g/cm}^3$

The density of the pastry mix is  $0.672 \text{ g/cm}^3$

Work out the density of the butter.

.....  $\text{g/cm}^3$

(Total for Question 24 is 4 marks)

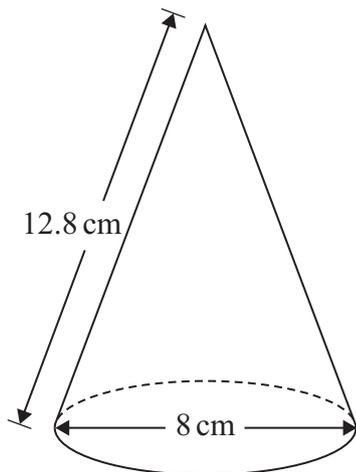


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25 The diagram shows a solid cone.



Curved surface area of cone =  $\pi r l$

A diagram of a cone with a slant height labeled  $l$  and a radius labeled  $r$ . The radius is shown as a horizontal line from the center of the base to the edge.

Calculate the total surface area of the cone.  
Give your answer correct to 3 significant figures.

..... cm<sup>2</sup>

(Total for Question 25 is 3 marks)



26 (a) Factorise  $x^2 - 121$

.....  
(1)

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

.....  
(2)

(c) (i) Factorise  $x^2 - 13x + 40$

.....  
(2)

(ii) Hence, or otherwise, solve  $x^2 - 13x + 40 = 0$

.....  
(1)

(Total for Question 26 is 6 marks)

TOTAL FOR PAPER IS 80 MARKS

