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4MA1 Nov 2026 Paper 2 Best Guess Paper

Foundation

———————————- Disclaimer ———————————-

This practice paper has been designed using a careful analysis of historical exam trends to identify topics highly likely to appear in the 4MA1 2F paper. It is an excellent revision tool specifically structured for students targeting a Grade 5. The paper establishes essential foundational skills in the opening questions before focusing heavily on the critical Grade 4 and 5 crossover topics required to secure top marks.

While the topics covered here are highly relevant, there is absolutely no guarantee they will appear in the actual exam. Despite claims frequently seen on social media, it is impossible to perfectly "predict" an exam paper—such statements are typically sales tactics. The most effective preparation strategy will always be a comprehensive revision of the entire mathematics specification.

The best way to prepare for the exams is to revise all topics

You can find a link to this paper and more completely free resources at www.mygrade9mathstutor.com

If you find this paper help please support me, by buying me a coffee

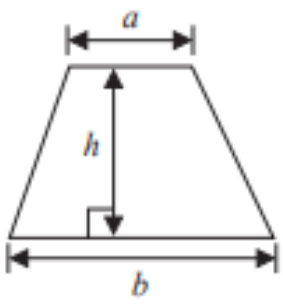
The Playlist for Solutions can be found

The best way to work with this paper is work though it all, watch the Clip. If you get the question incorrect watch the clip again and then try the similar questions from the worksheets

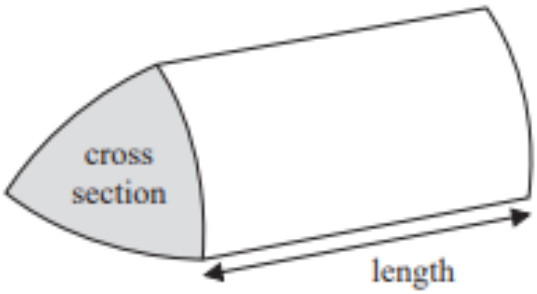
International GCSE Mathematics

Formulae sheet – Foundation Tier

Area of trapezium = $\frac{1}{2}(a + b)h$

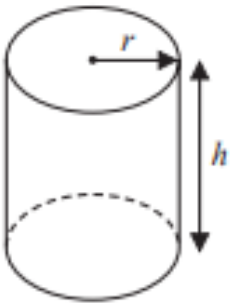


Volume of prism = area of cross section × length



Volume of cylinder = $\pi r^2 h$

Curved surface area of cylinder = $2\pi rh$

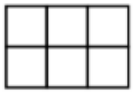


Answer ALL TWENTY SEVEN questions.
Write your answers in the spaces provided.

You must write down all the stages in your working.

1

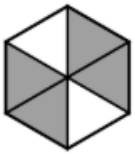
(a) The diagram shows a rectangle divided into 6 equal squares.



Shade $\frac{1}{3}$ of the rectangle.

(1)

(b) Here is a regular hexagon divided into triangles.



What fraction of the hexagon is shaded?
Give your fraction in its simplest form.

.....

(2)

(c) Write 0.7 as a fraction.

.....

.....

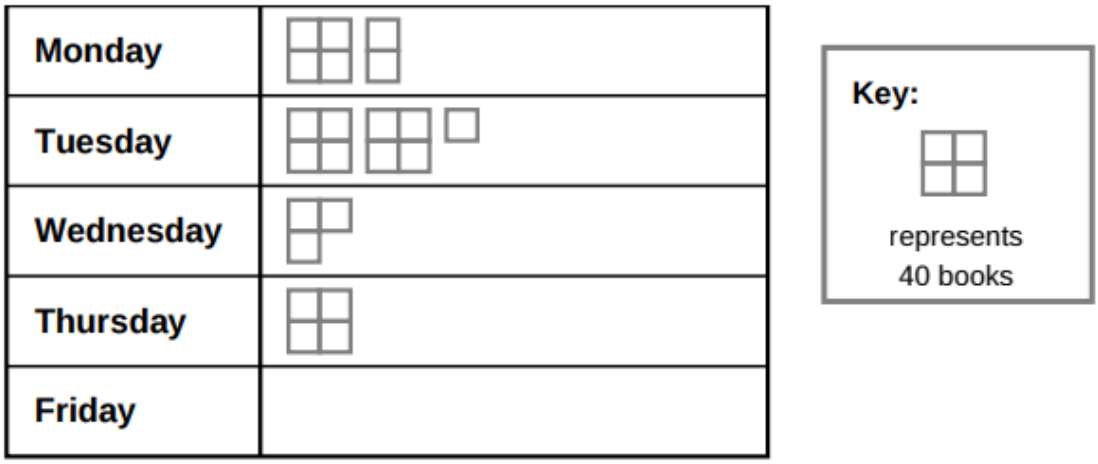
(1)

(Total for Question 1 is 4 marks)

Model Solution	Practice Perfect Questions

2.

The pictogram shows information about the number of books sold in a shop on each of five days last week.



(a) How many books were sold on Wednesday?

..... **(1)**

70 books were sold on Friday.

(b) Complete the pictogram to show the number of books sold on Friday.

(Draw on the pictogram) ..... **(1)**

Total for Question 2 is 2 marks)

Model Solution	Practice Perfect Questions

3. The table shows the temperatures recorded at midnight and at midday for each of five Middle Eastern cities on a Monday one week.

City	Midnight temperature (°C)	Midday temperature (°C)
Amman	−2	9
Tehran	−5	3
Riyadh	8	22
Beirut	12	18
Jerusalem	4	11

(a) Which city had the lowest midnight temperature?

(1)

(b) Find the difference between the midnight temperature and midday temperature for Amman.

°C (1)

From Monday to Thursday, the midday temperature in Tehran decreased by 2°C each day.

(c) Work out the midday temperature in Tehran on Thursday.

°C (2)

Total for Question 3 is 4 marks)

Model Solution	Practice Perfect Questions

4. (*a*) Change 7.25 metres into centimetres.

..... cm
(1)

(*b*) Change 3800 millilitres into litres.

…..... litres
(1)

Here is an isosceles triangle *ABC*.

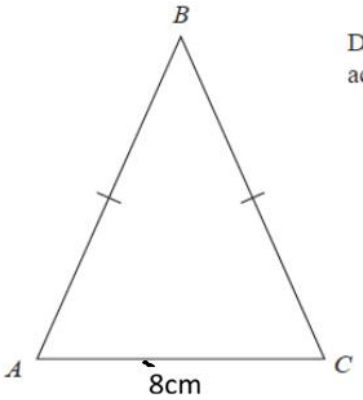


Diagram **NOT** accurately drawn

AC = 8 cm.

The perimeter of the triangle is 38 cm.

(*c*) Work out the length of *AB*.

..... cm
(2)

(Total for Question 4 is 4 marks)

Model Solution	Practice Perfect Questions

5. Katie got on a train at 08 45.

She got off the train at 14 20.

How long was Katie on the train?

Give your answer in hours and minutes.

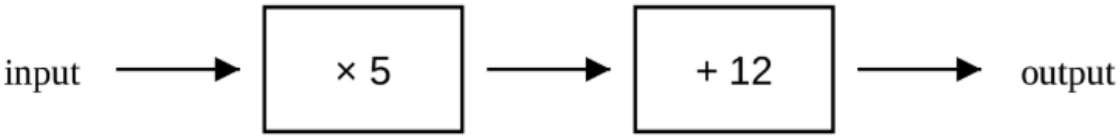
hours minutes

(2)

(Total for Question 5 is 2 marks)

Model Solution	Practice Perfect Questions

6. Here is a number machine John uses.



(a) Find the output when the input is 7

(1)

(b) Find the output when the input is −3

(1)

(Total for Question 6 is 2 marks)

Model Solution	Practice Perfect Questions

7. Arabella chooses one sandwich and one snack for her lunch.

She can choose one sandwich from Ham (H) or Cheese (C) or Tuna (T).

She can choose one snack from Apple (A) or Banana (B) or Melon (M).

(a) Write down all the possible combinations that Arabella can choose.

(2)

Tom and Ben share some strawberries in the ratio 2 : 5

(b) What fraction of the strawberries does Ben get?

(1)

(Total for Question 7 is 3 marks)

Model Solution	Practice Perfect Questions
	

8. In a stationery shop:

4 notebooks cost €6.80

3 notebooks and 5 pens cost €11.35

Doug buys 1 pen.

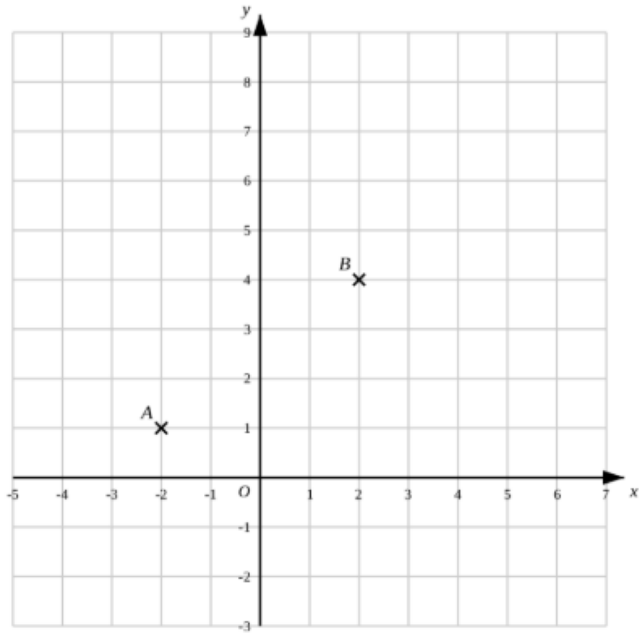
Work out the cost of one pen.

(3)

Model Solution	Practice Perfect Questions
	

(Total for Question 8 is 3 marks)

9. The diagram shows points A and B marked on a grid of squares.



(a) On the grid, draw the line with equation $x = -3$

(1)

(b) M is the midpoint of AB. Find the coordinates of M.

.....

(2)

C is the point with coordinates (5, c) where $c > 0$.

The triangle ABC is an isosceles triangle with AB = BC.

(c) Find the value of c.

.....

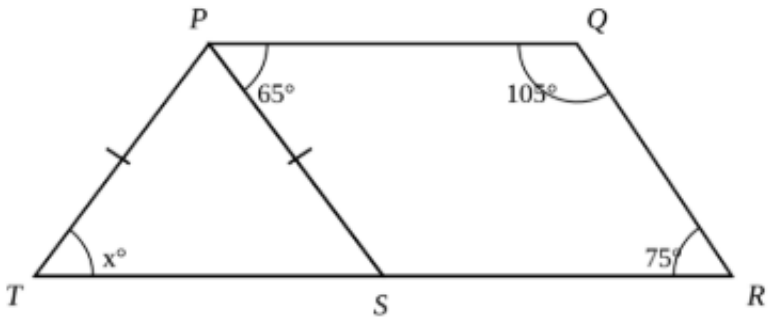
(2)

(Total for Question 9 is 5 marks)

Model Solution	Practice Perfect Questions

10.

The diagram shows quadrilateral $PQRS$ and isosceles triangle PST, where $PT = PS$.



TSR is a straight line.

Work out the value of x.
Give a reason for each stage of your working.

(4)

(Total for Question 10 is 3 marks)

Model Solution	Practice Perfect Questions

11. Zoe has a biased 5-sided spinner, numbered 1, 2, 3, 4, 5.

The table gives the probabilities that when the spinner is spun it will land on 2 or on 3 or on 5.

Number	1	2	3	4	5
Probability		0.15	0.22		0.13

The probability that the spinner will land on 1 is the same as the probability that the spinner will land on 4.

Zoe is going to spin the spinner 300 times.

Work out an estimate for the number of times the spinner will land on 4.

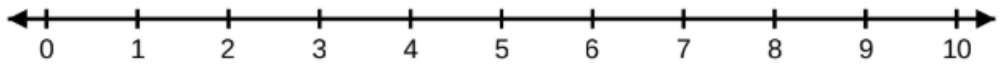
(Total for Question 11 is 3 marks)

Model Solution	Practice Perfect Questions

12. (a) Solve the inequality $3x - 5 > 10$

(2)

(b) Represent your solution on the number line below.



(1)

(Total for Question 12 is 3 marks)

Model Solution	Practice Perfect Questions

13. A plane has a length of 78 metres.
A scale model is made of the plane.
The scale of the model is 1: 200

Work out the length of the scale model.
Give your answer in centimetres.

..... cm

(Total for Question 13 is 3 marks)

Model Solution	Practice Perfect Questions

14. Here are eight numbers written in order of size:

$$p, \quad 4, \quad 7, \quad 10, \quad q, \quad 15, \quad r, \quad r$$

where p, q, and r are integers.
The median of the eight numbers is **11**
The mode of the eight numbers is **19**
The range of the eight numbers is **16**
Work out the value of p, the value of q and the value of r.

p = ...

q = ...

r = ...

Total for Question 14 is 3 marks)

Model Solution	Practice Perfect Questions

15 (a)Simplify $(2p^3)^5$

.....

(2)

Model Solution	Practice Perfect Questions

(b) Expand and simplify $2p(4p - 3) - p(p - 4)$

.....

(2)

Model Solution	Practice Perfect Questions

(c) Make c the subject of t= 4c + d

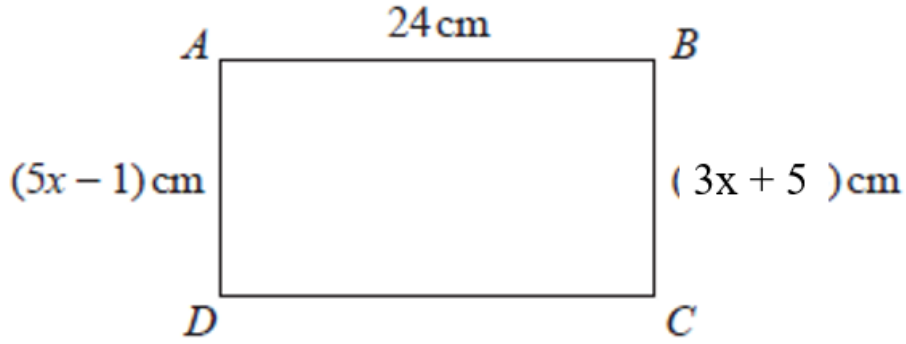
.....

(2)

(Total for Question 15 is 6 marks)

Model Solution	Practice Perfect Questions

16. The diagram shows rectangle *ABCD*



Work out the Area of the rectangle.
Show your working clearly.

..... cm^2

(Total for Question 16 is 4 marks)

Model Solution	Practice Perfect Questions

17. John plants 720 bulbs in a garden.
He plants tulip bulbs, crocus bulbs and daffodil bulbs so that

number of tulip bulbs : number of crocus bulbs : number of daffodil bulbs $= 7 : 3 : 2$

- 40% of the tulip bulbs are for yellow flowers.
- $\frac{2}{3}$ of the crocus bulbs are for yellow flowers.
- $\frac{3}{4}$ of the daffodil bulbs are for yellow flowers.

Work out the total number of bulbs that are for yellow flowers.

.....

(Total for Question 17 is 5 marks)

Model Solution	Practice Perfect Questions

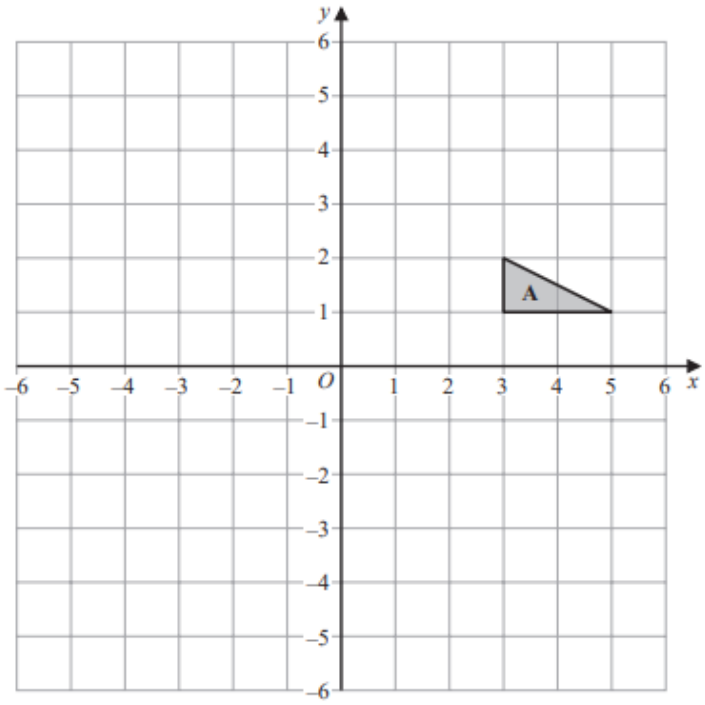
18. Mark manages a sports shop.
In October, he sold 600 pairs of running shoes.
In November, he sold 432 pairs of running shoes.
Work out the percentage decrease in the number of pairs of running shoes sold from October to November.

.....%

(Total for Question 18 is 3 marks)

Model Solution	Practice Perfect Questions

19



(a) Rotate triangle **A** 90° anticlockwise about the origin $(0,0)$.
Label the image **C**.

(2)

Model Solution	Practice Perfect Questions

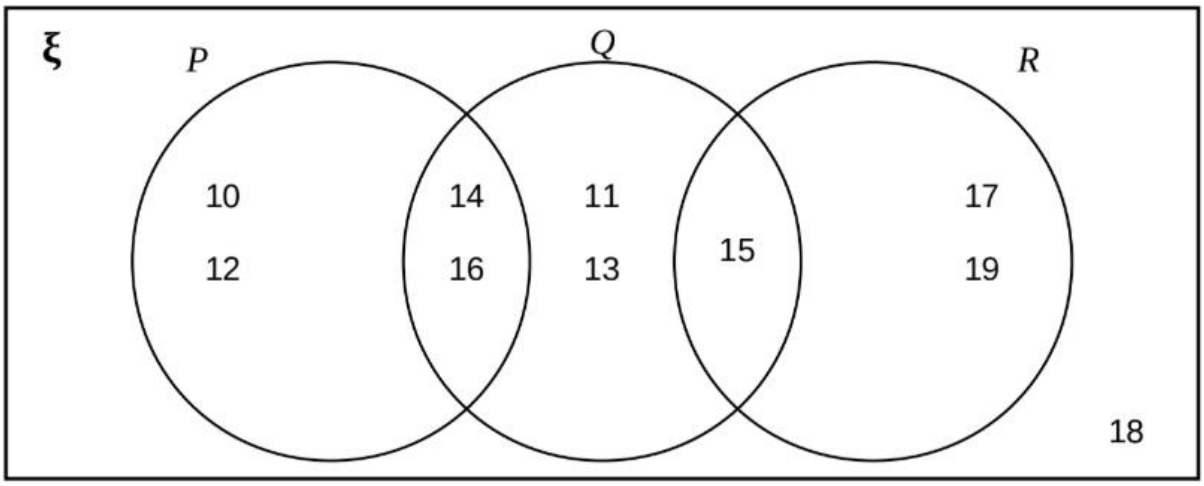
(b) Enlarge triangle **A** by scale factor 3 with centre $(5,1)$.
Label the image **B**.

(3)

(Total for Question 19 is 5 marks)

Model Solution	Practice Perfect Questions

20 Here is a Venn diagram.



(a) Write down the numbers that are in the set

(i) Q

.....

(ii) $P \cup R$

.....

Alice writes down the statement $P \cap R = \varnothing$

(b) Is Alice's statement correct?

You must give a reason for your answer.

.....

.....

One of the numbers in the Venn diagram is picked at random.

(c) Find the probability that this number is in set Q'.

.....

(Total for Question 20 is 5 marks)

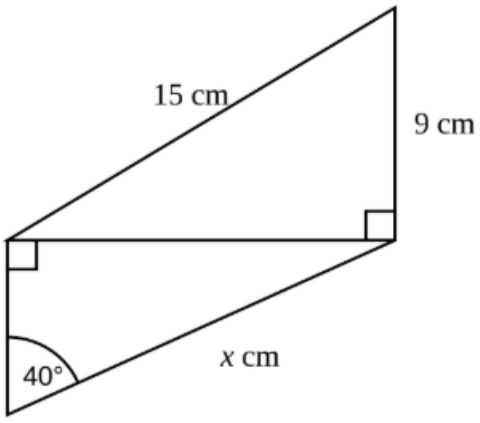
Model Solution	Practice Perfect Questions

21. In a spring sale, the normal price of a television is reduced by 20%.
The sale price of the television is £344.
Work out the normal price of the television.

(Total for Question 21 is 2 marks)

Model Solution	Practice Perfect Questions

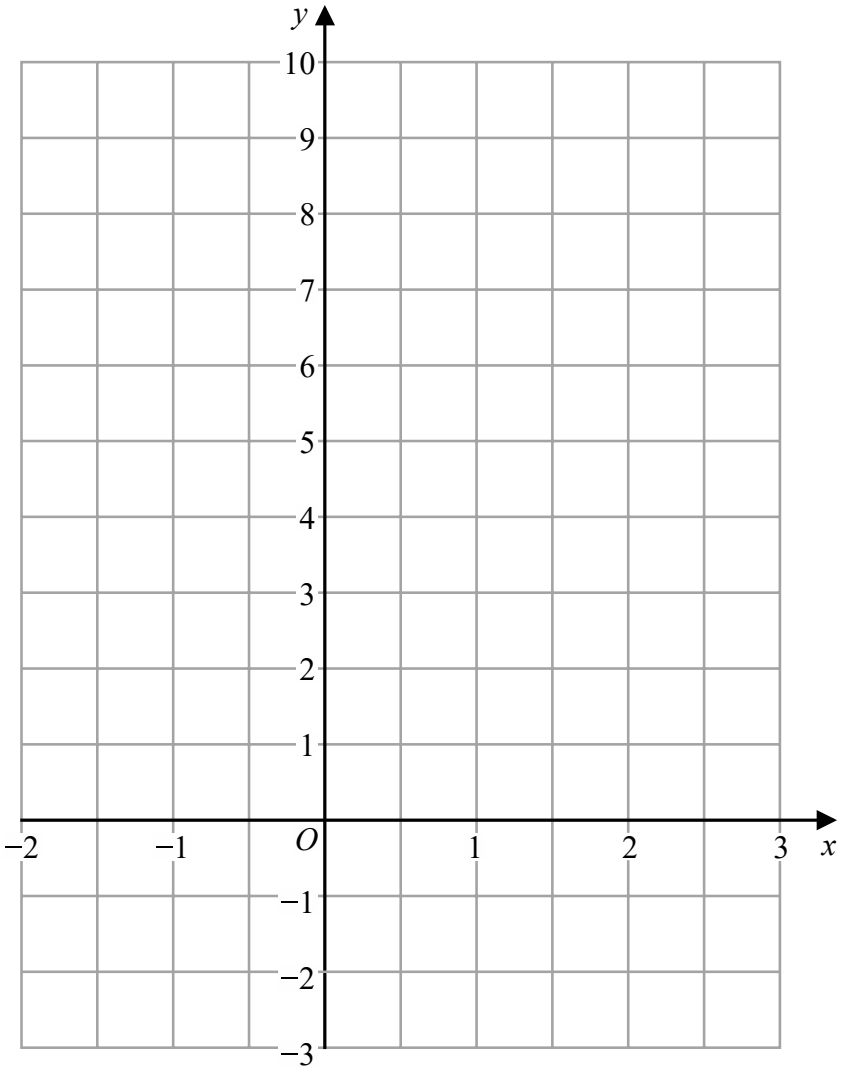
22. Work out the value of x.
Give your answer to 1 decimal place.



(Total for Question 22 is 4 marks)

Model Solution	Practice Perfect Questions

23. On the grid, draw the graph of $y = -2x + 4$ for values of x from -2 to 3.



(3)

(*b*) Show, by shading on the grid, the region that satisfies **all three** of the inequalities

$x \geqslant 0$ $y \geqslant -1$ $y \leqslant -2x+4$

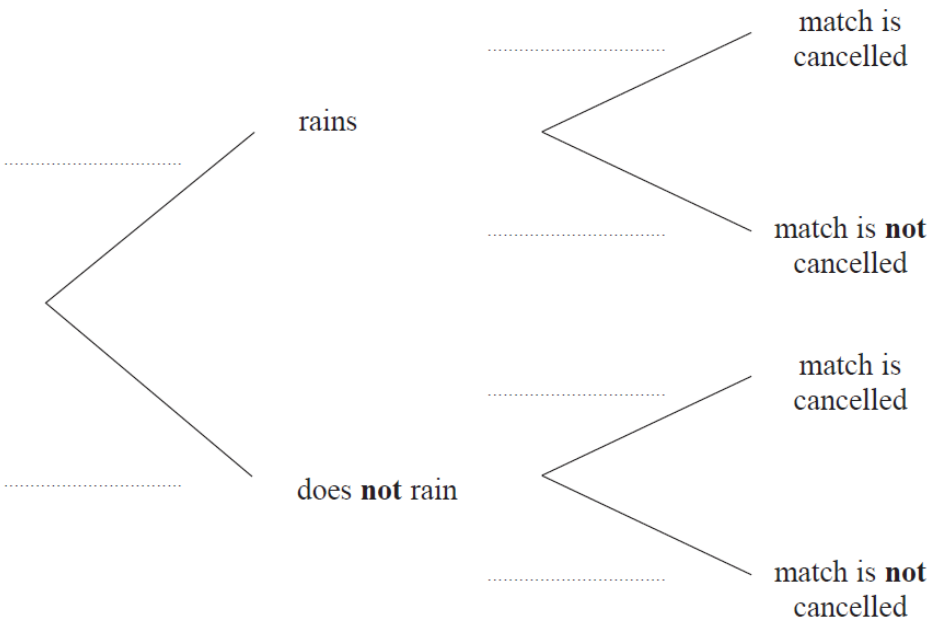
Label the region **R**.

(2)

(Total for Question 23 is 5 marks)

Model Solution	Practice Perfect Questions

24. The probability that it will rain on a day in August is 0.35.
When it rains, the probability that my cricket match is cancelled is 0.8.
When it does not rain, the probability that my cricket match is not cancelled is 0.9.
(*a*) Complete the probability tree diagram for this information.



(2)

(b) Work out the probability that, on a day in August, my cricket match is cancelled.

(3)

(Total for Question 24 is 5 marks)

Model Solution	Practice Perfect Questions

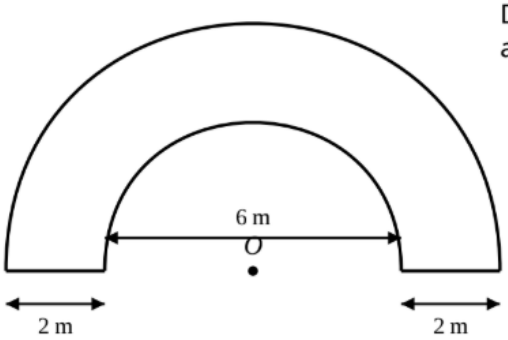
25.

The diagram shows a plan of a patio.
The edge of the patio consists of two semicircles and two straight lines.
Each semicircle has centre *O*.
The diameter of the large semicircle is 10 m.
The diameter of the small semicircle is 6 m.

Paving Stones
£24 per m^2

Jo is going to cover the patio with paving stones.
Jo has a budget of £1200.
Has Jo got enough money to buy all the paving stones she needs?
You must show all your working.

Diagram NOT accurately drawn

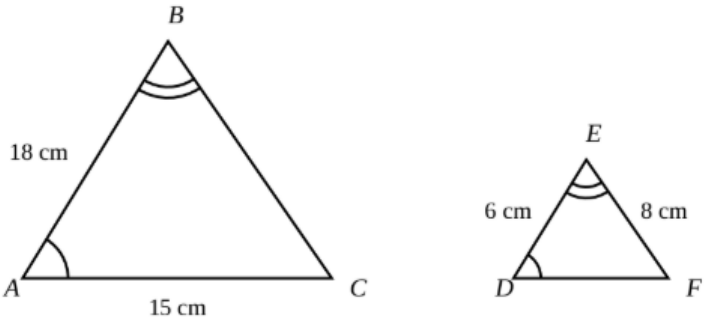


(Total for Question 25 is 5 marks)

Model Solution	Practice Perfect Questions

26. ABC and DEF are similar triangles.

Diagram NOT accurately drawn



(a) Work out the length of DF.

cm
(2)

(b) Work out the length of BC.

cm
(2)

.....

(Total for Question 26 is 4 marks)

Model Solution	Practice Perfect Questions

27. The straight line $\mathbf{L}_1$ has the equation $3y - 2x = 12$.
The straight line $\mathbf{L}_2$ is parallel to $\mathbf{L}_1$ and passes through the point $(0,5)$.
Find the equation of $\mathbf{L}_2$.
Give your answer in the form $y = mx + c$.

.....

(Total for Question 27 is 3 marks)

Model Solution	Practice Perfect Questions

TOTAL FOR PAPER = 100 MARKS