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1MA1 Nov 2026 Paper 2 Best Guess Paper

Higher

————————————- Disclaimer ————————————-

This practice paper has been crafted through careful analysis of historical exam trends to identify topics highly likely to appear in the Pearson Edexcel 1MA1 Paper 2H. It is specifically designed as a targeted revision tool for students aiming to secure a Grade 5 on the Higher tier. The questions focus heavily on the critical Grade 4 and 5 crossover topics and accessible procedural skills needed to confidently reach that boundary.

While these topics are highly relevant for targeted revision, there is absolutely no guarantee they will appear on the real exam. Beware of social media claims promising perfect "predicted" papers—these are usually just sales tactics. The most effective preparation strategy remains a comprehensive revision of the entire mathematics specification.

The best way to prepare for the exams is to revise all topics. For fully worked solutions, video walkthroughs, and more free resources, visit www.mygrade9mathstutor.com.

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

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Walkthrough playlist

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

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

You must write down all the stages in your working.

1. Here are the first five terms of an arithmetic sequence: 3,7,11,15,19.

(a) Find an expression, in terms of n, for the n-th term of this sequence

(2)

(b) Show that 87 is a term in this sequence

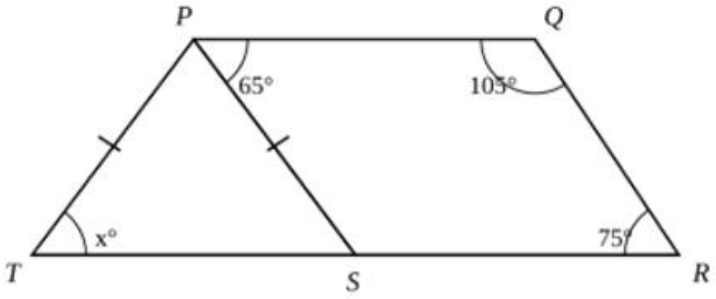
(1)

(Total for Question 1 is 3 marks)

Model Solution	Practice Perfect Questions
	

2

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.

(3)

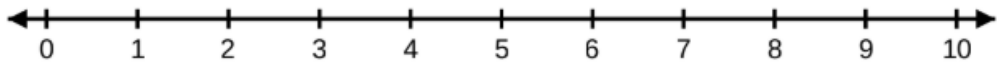
(Total for Question 2 is 3 marks)

Model Solution	Practice Perfect Questions

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

(2)

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



(1)

(Total for Question 3 is 3 marks)

Model Solution	Practice Perfect Questions

4. The table gives information about the masses, m kg, of 50 luggage bags:

Mass (m kg)	Frequency
$0 < m \leq 5$	6
$5 < m \leq 10$	14
$10 < m \leq 15$	18
$15 < m \leq 20$	8
$20 < m \leq 25$	4

Calculate an estimate for the mean mass of the 50 luggage bags.

(Total for Question 4 is 3 marks)

Model Solution	Practice Perfect Questions

5. Fin invests £5200 in a savings account for 4 years at a compound interest rate of 3.1% per annum.

Work out the total value of Fin's investment at the end of the 4 years.
Give your answer correct to 2 decimal places.

.....

(2)

(Total for Question 5 is 2 marks)

Model Solution	Practice Perfect Questions

6 (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

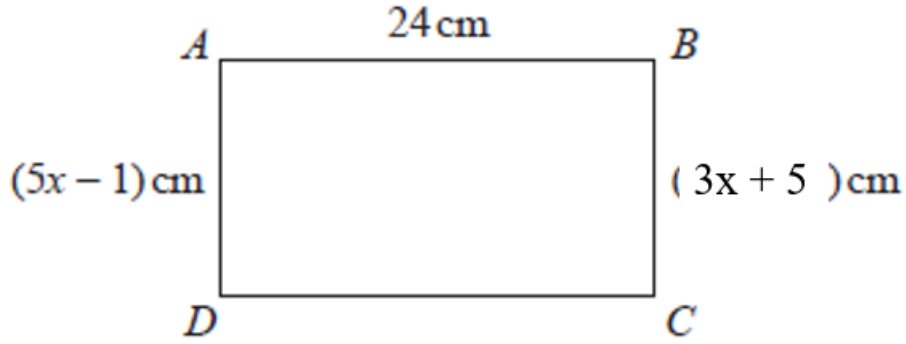
.....

(2)

(Total for Question 6 is 6 marks)

Model Solution	Practice Perfect Questions

7. The diagram shows rectangle *ABCD*



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

..... cm^2

(Total for Question 7 is 4 marks)

Model Solution	Practice Perfect Questions

8. 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 8 is 4 marks)

Model Solution	Practice Perfect Questions

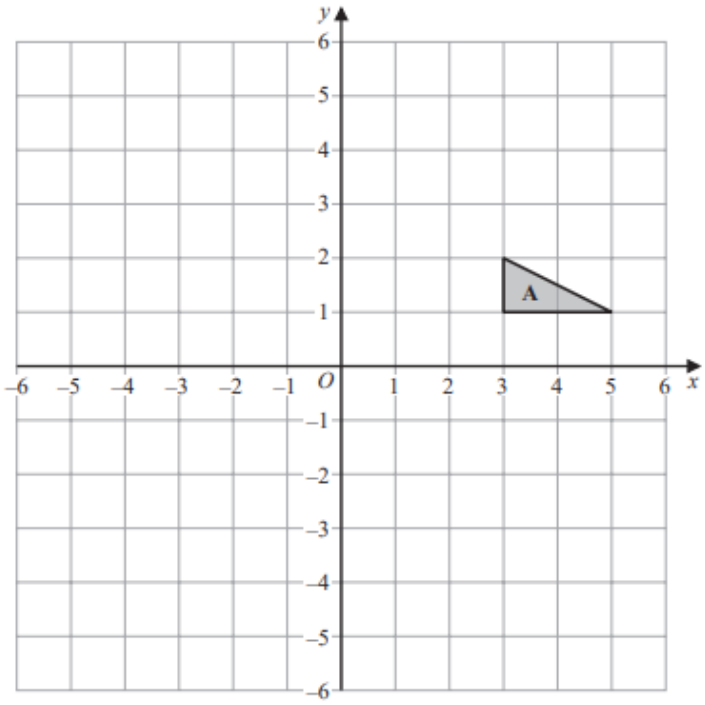
9. Mark manages a sports shop.
In October, he sold 600 pairs of running shoes.
In November, he sold 432 pairs of running shoes.
Work out the percentage decrease in the number of pairs of running shoes sold from October to November.

.....%

(Total for Question 9 is 3 marks)

Model Solution	Practice Perfect Questions

10



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

(2)

Model Solution	Practice Perfect Questions

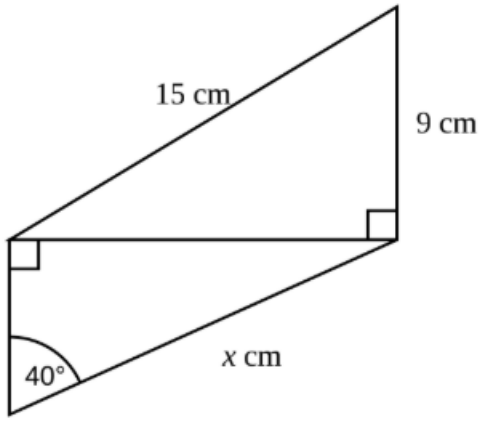
(b) Enlarge triangle **A** by scale factor 3 with centre $(5,1)$.
Label the image **B**.

(2)

(Total for Question 10 is 4 marks)

Model Solution	Practice Perfect Questions

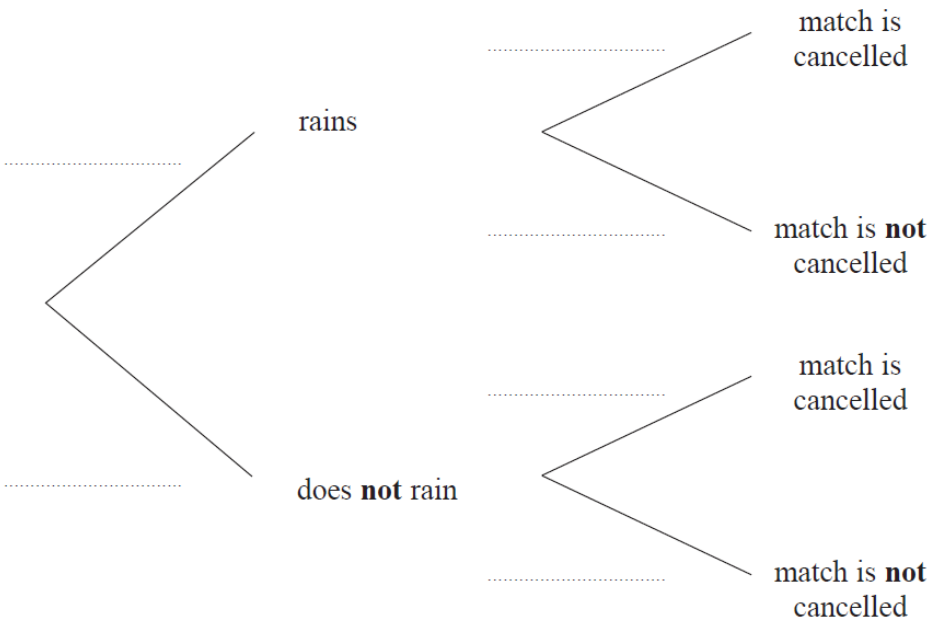
11. Work out the value of x.
Give your answer to 1 decimal place.



(Total for Question 11 is 4 marks)

Model Solution	Practice Perfect Questions

12. 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.

(2)

(Total for Question 12 is 4 marks)

Model Solution	Practice Perfect Questions

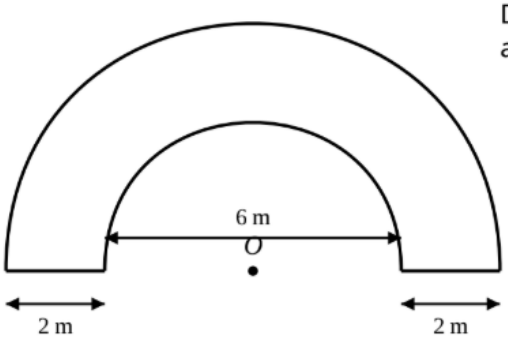
13.

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

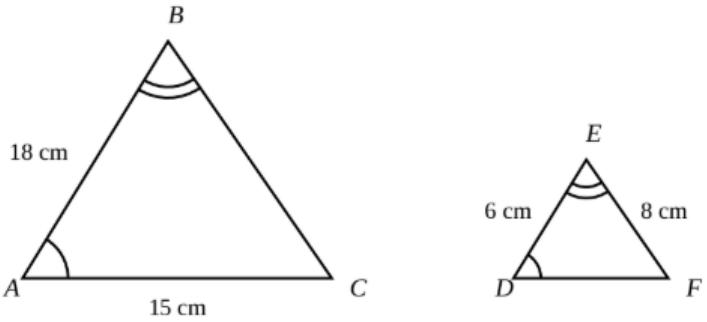


(Total for Question 13 is 5 marks)

Model Solution	Practice Perfect Questions

14. 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 14 is 4 marks)

Model Solution	Practice Perfect Questions

15. 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 15 is 3 marks)

Model Solution	Practice Perfect Questions
	

16. Solve $5x^2 - 6x - 3 = 0$.
Give your solutions correct to 3 significant figures.
Show your working clearly.

(3 marks)
(Total for Question 16 is 3 marks)

Model Solution	Practice Perfect Questions
	

17. (a) Find the value of k when $5^k = 1$.

k = ...

(1)

$\frac{27}{3^8} = 3^m$

(b) Find the value of m.

m = ...

(2)

$(7^{-4})^3 \times 7^5 = 7^p$

(c) Find the value of p.

P = ...

(2)

(Total for Question 17 is 5 marks)

Model Solution	Practice Perfect Questions

18. A solid metal sphere has radius 2.4 cm.
The mass of the sphere is 385 grams.
Work out the density of the sphere.
Give your answer correct to 3 significant figures.

..... g / cm^3

(Total for Question 18 is 3 marks)

Model Solution	Practice Perfect Questions

19. Sarah recorded the number of emails she received each day for 11 days.
Here are the results in numerical order.

3 5 8 10 11 14 15 18 20 21 25

Find the interquartile range of the number of emails.

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

Model Solution	Practice Perfect Questions

20. The functions f and g are defined such that:

$$f(x) = \frac{3x - 5}{2}$$
$$g(x) = 2x^2 + 1$$

(a) Find $f^{-1}(x)$.

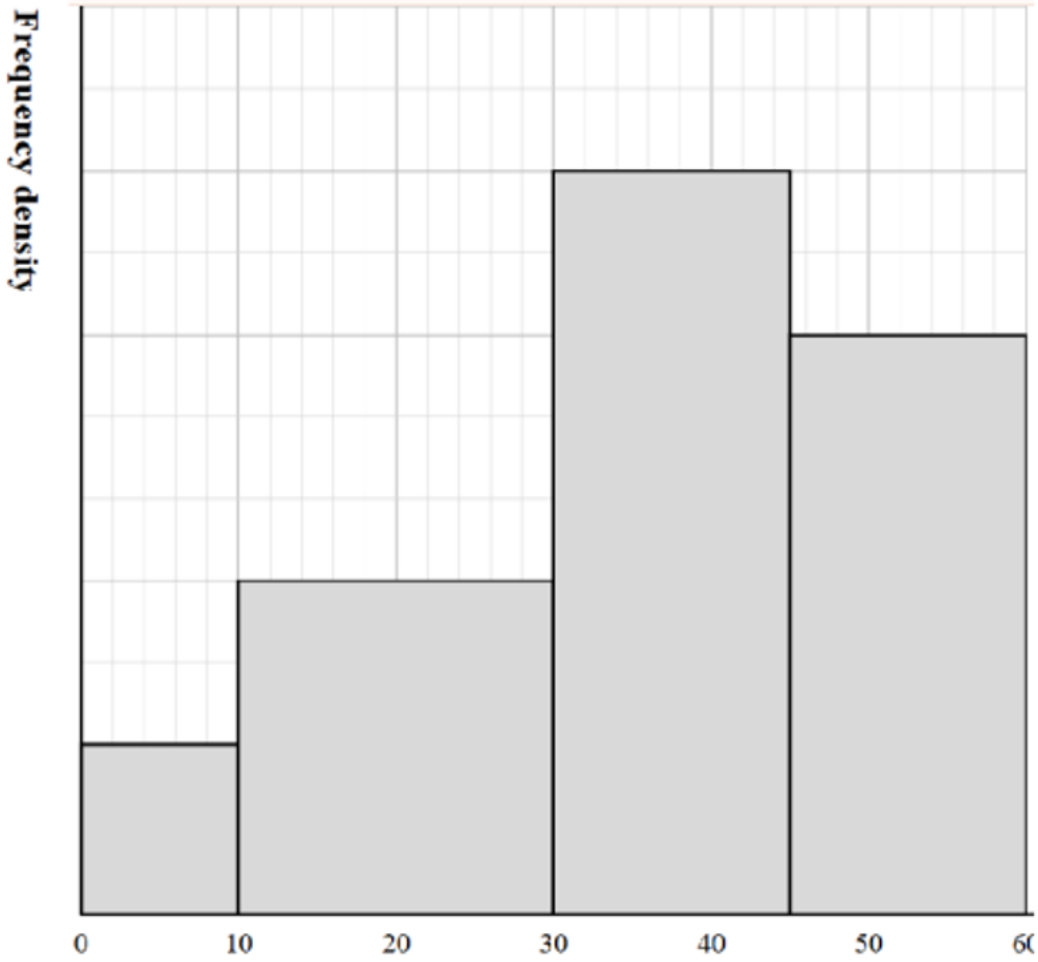
(2 marks)

(b) Work out the value of $gf(3)$.

(2 marks)
(Total for Question 20 is 4 marks)

Model Solution	Practice Perfect Questions

*2*1. The histogram gives information about the weights, in grams, of some strawberries.



One of these strawberries is chosen at random. Work out an estimate for the probability that the strawberry has a weight between 25 grams and 50 grams.

.....

(Total for Question 21 is 4 marks)

Model Solution	Practice Perfect Questions

22 Solid **A** and solid **B** are mathematically similar.
The total surface area of solid **A** is 45π cm^2.
The total surface area of solid **B** is 80π cm^2.
The volume of solid **A** is 810 cm^3.
Calculate the volume of solid **B**.
.

.....

(Total for Question 22 is 4 marks)

Model Solution	Practice Perfect Questions