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1MA1 Nov 2026 Paper 1 Best Guess Paper

----- Disclaimer -----

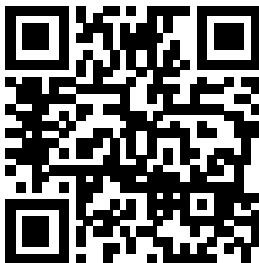
This paper has been created based on topics from previous years and careful analysis of what topics are highly likely to appear in paper 1H. The paper should be excellent at helping students revise for exams. This paper is specifically targeted at high-attaining students aiming for a Grade 9, so it is intentionally more rigorous and challenging than a standard real exam paper. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. There are deliberately more questions at a higher grade than you would expect.

Despite what you might see on social media it is not possible to "predict" the paper perfectly. This is usually what people say when they are selling you something...

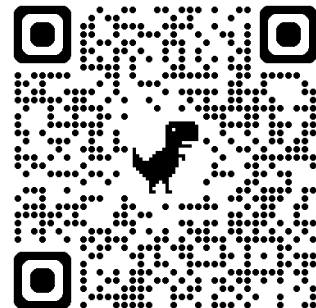
The best way to prepare for the exams is to revise all topics

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 through 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 FOUR questions.
Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Work out

$$2\frac{1}{4} \div \frac{3}{5}$$

Give your answer as a mixed number in its simplest form.

(Total for Question 1 is 3 marks)

Model Solution	Practice Perfect Questions
	

2 Alex, Ben, and Chloe share some money in the ratio 2: 5: 9.
Chloe receives £35 more than Alex.
Work out how much money Ben receives.

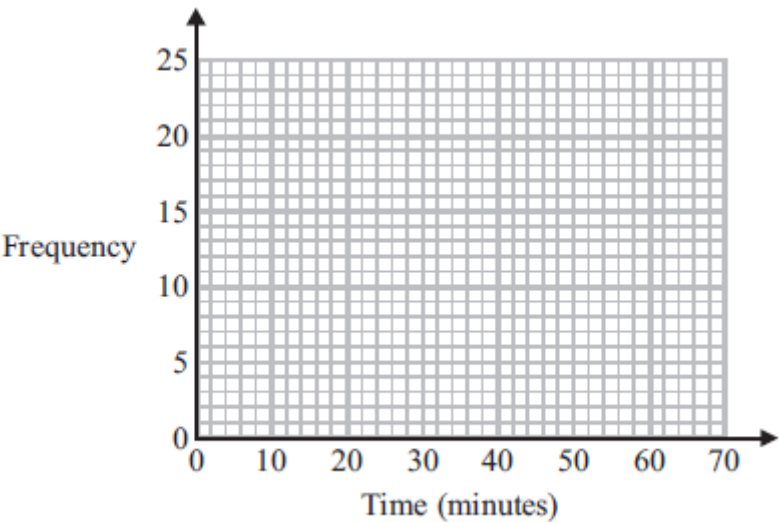
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(Total for Question 2 is 2 marks)

Model Solution	Practice Perfect Questions
	

3. The frequency table gives information about the times it took some students to get to school one day.

Time (t minutes)	Frequency
$0 < t \leq 10$	14
$10 < t \leq 20$	18
$20 < t \leq 30$	4
$30 < t \leq 40$	6
$40 < t \leq 50$	6
$50 < t \leq 60$	2

(a) Draw a frequency polygon for this information.



(2)

(b) Write down the modal class interval.

.....
(1)

(Total for Question 3 is 3 marks)

Model Solution	Practice Perfect Questions
	

4 () Simplify $a^6 \times a^{10}$

.....
(1)

(b) Simplify $c^{30} \div c^{12}$

.....
(1)

Model Solution	Practice Perfect Questions
	

(c) (i) Factorise $x^2 - 10x + 24$

.....
(2)

(ii) Hence, solve $x^2 - 10x + 24 = 0$

.....
(1)

(Total for Question 4 is 5 marks)

Model Solution	Practice Perfect Questions
	

5. A number, y , is rounded to 2 significant figures.
 The result is 0.046.
 Write down the error interval for y .

(Total for Question 5 is 2 marks)

Model Solution	Practice Perfect Questions
	

6 $\mathcal{E} = \{\text{integers from 1 to 12}\}$
 $A = \{\text{factors of 12}\}$
 $B = \{\text{multiples of 3}\}$
 (a) List the members of the set $A \cap B$.

(2 marks)

A number is chosen at random from the universal set $\mathcal{E}$.
 (b) Find the probability that this number is in the set $A \cup B$.

(2 marks)

(Total for Question 6 is 4 marks)

Model Solution	Practice Perfect Questions
	

7 Use algebra to show that $0.\overline{381} = \frac{21}{55}$

(Total for Question 7 is 3 marks)

Model Solution	Practice Perfect Questions
	

8 Expand and simplify $(x - 2)(x + 3)(2x + 1)$.

(Total for Question 8 is 3 marks)

Model Solution	Practice Perfect Questions
	

9 Point A has coordinates $(2,9)$.
Point B has coordinates $(10,3)$.
Work out the exact length of the line segment AB .

(Total for Question 9 is 3 marks)

Model Solution	Practice Perfect Questions
	

10 a) Write 0.0000407 in standard form.

(1)

(b) Work out the value of $(3.2 \times 10^4) \times (5 \times 10^3)$.
Give your answer in standard form.

(2)

(Total for Question 10 is 3 marks)

Model Solution	Practice Perfect Questions
	

- 11 Liquid A has a density of 1.2 g/cm^3 .
 Liquid B has a density of 0.8 g/cm^3 .
 300 cm^3 of Liquid A is mixed with 200 cm^3 of Liquid B to make Liquid C.
 Work out the density of Liquid C.

(Total for Question 11 is 3 marks)

Model Solution	Practice Perfect Questions
	

12 The grouped frequency table shows information about the weekly wages of 80 workers.

Weekly wage (£x)	Cumulative Frequency
$100 < x \leq 200$	8
$200 < x \leq 300$	15
$300 < x \leq 400$	37
$400 < x \leq 500$	10
$500 < x \leq 600$	7
$600 < x \leq 700$	3

(a) Complete the cumulative frequency table.

Weekly wage (£x)	Cumulative Frequency
$100 < x \leq 200$	
$100 < x \leq 300$	
$100 < x \leq 400$	
$100 < x \leq 500$	
$100 < x \leq 600$	
$100 < x \leq 700$	

(1)

(b) On the grid opposite, draw a cumulative frequency graph for your table.

(2)

(c) Use your graph to find an estimate for the median wage.

.....

(1)

(d) Use your graph to find an estimate for the interquartile range.

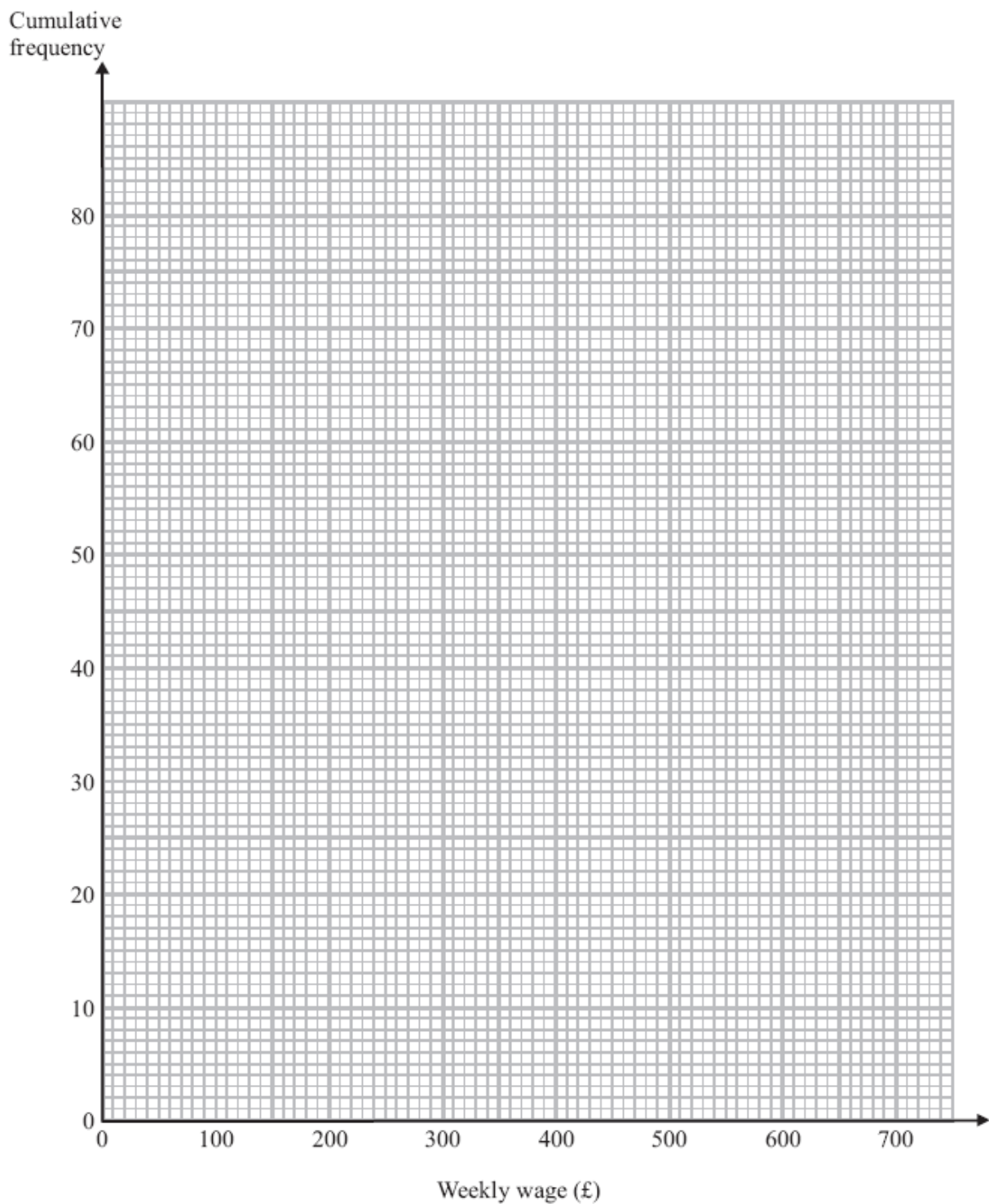
£

(2)

(e) Use your graph to find an estimate for the number of workers with a weekly wage of more than £430

.....

(2)



(Total for Question 12 is 8 marks)

Model Solution	Practice Perfect Questions
	

-
- 13** Solve the quadratic inequality: $3x^2 - 5 \leq 14x$
Show clear algebraic working.

(Total for Question 13 is 3 marks)

Model Solution	Practice Perfect Questions
	

- 14 y is directly proportional to the square of t .
 $y = 20$ when $t = 2$
 t is inversely proportional to the square root of x .
 $t = 3$ when $x = 4$
 Find a formula for y in terms of x .
 Give your answer in its simplest form.

(Total for Question 14 is 4 marks)

Model Solution	Practice Perfect Questions
	

15. Simplify fully

$$\frac{x^2 - 9}{2x^2 + 5x - 3}$$

(Total for Question 15 is 3 marks)

Model Solution	Practice Perfect Questions
	

16.

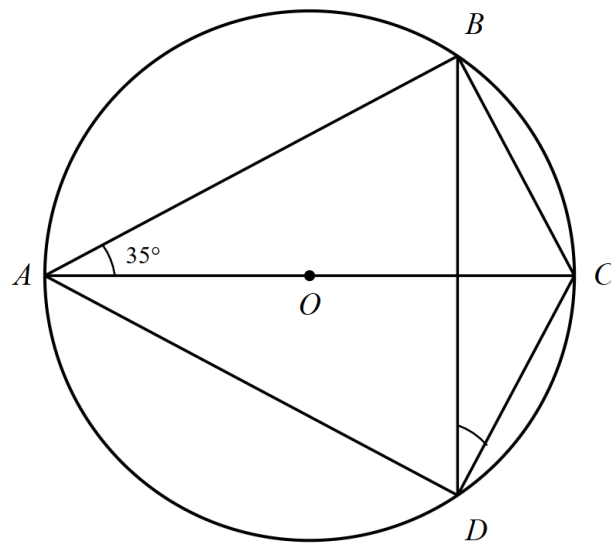


Diagram NOT accurately drawn

A , B , C , and D are points on the circumference of a circle, centre O .

AC is a diameter of the circle. Angle $BAC = 35^\circ$.

Work out the size of angle BDC .

You must give reasons for each stage of your working.

Model Solution	Practice Perfect Questions
	

17 The functions f and g are defined as:

$f(x) = \frac{2x+1}{x-3}, x \neq 3$ and $g(x) = x^2 - 4$

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

(3)

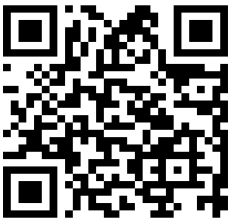
(b) Express $gf(x)$ as a single fraction in its simplest form.

(2)

(c) Solve $g(x) = 21$

(1)

(Total for Question 17 is 6 marks)

Model Solution	Practice Perfect Questions
	

18 Make y the subject of the formula:

$$p = \sqrt{\frac{2y + 5}{3y - k}}$$

(Total for Question 18 is 3 marks)

Model Solution	Practice Perfect Questions
	

19 The straight-line L has equation $2x + y = 7$.
 The curve C has equation $x^2 + y^2 - 4x + 2y = 32$.
 Find the coordinates of the points where L and C intersect.
 Show clear algebraic working.

.....
 (Total for Question 19 is 5 marks)

Model Solution	Practice Perfect Questions
	

20. By completing the square, find the coordinates of the turning point of the curve with equation $y = 3x^2 - 12x + 7$
You must show all your working.

(3 marks)

Model Solution	Practice Perfect Questions
	

21 C is a circle with centre $(0,0)$.

L is a straight line.

The circle C and the line L intersect at the points P and Q .

The coordinates of P are $(6,8)$.

The point Q has x -coordinate -8 and lies in the third quadrant.

Line L crosses the y -axis at the point $(0,k)$.

Find the value of k .

(Total for Question 21 is 5 marks)

Model Solution	Practice Perfect Questions
	

22 Solve the equation:

$$\frac{3}{x-2} - \frac{2}{2x+1} = 1$$

Show clear algebraic working.

(5 marks)

Model Solution	Practice Perfect Questions
	

23 Show that the following expression can be written in the form $a + b\sqrt{3}$, where a and b are integers:

$$\frac{(2 + \sqrt{3})^2}{2 - \sqrt{3}}$$

Show all stages of your working clearly.

(4 marks)

Model Solution	Practice Perfect Questions
	

24. The curve with equation $y = f(x)$ has a single local maximum turning point at $(-2, 5)$.

(a) Write down the coordinates of the local maximum turning point of the curve with equation:

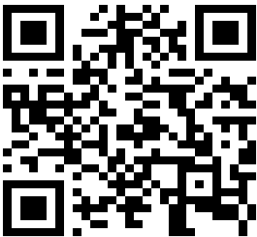
$$y = -f(x + 3)$$

(2 marks)

(b) Write down the coordinates of the local maximum turning point of the curve with equation:

$$y = 3f\left(\frac{1}{2}x\right)$$

(2 marks)

Model Solution	Practice Perfect Questions
	

TOTAL FOR PAPER = 80 MARKS