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1MA1 Nov 2026 Paper 3 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 1MA1 3F 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

1 Change 450 centimetres into metres.

..... metres

(Total for Question 1 is 1 mark)

2 Work out $\frac{1}{4}$ of 36

.....

(Total for Question 2 is 1 mark)

3 Write 35% as a fraction in its simplest form.

.....

(Total for Question 3 is 1 mark)

4 Work out 3.5^2

.....

(Total for Question 4 is 1 mark)

5 Write these numbers in order of size.
Start with the smallest number.

3 -5 0 8 -2 -7 1

.....

(Total for Question 5 is 1 mark)

Walkthrough	Worksheet

6 (a) Write these decimals in order of size.
Start with the smallest decimal.

0.67 0.078 0.7 0.76 0.706

.....

(1)

(b) Write 0.62 as a percentage.

..... %

(1)

Here are some fractions.

$\frac{1}{3}$ $\frac{2}{7}$ $\frac{4}{9}$ $\frac{3}{5}$ $\frac{10}{3}$

One of these fractions can be written as a terminating decimal.

(c) Write down this fraction.

.....

(1)

(Total for Question 6 is 3 marks)

Walkthrough	Worksheet

7 Katie buys

two magazines for £3.25 each
one bag of sweets for £2.60
three bars of chocolate for £1.75 each

Katie pays with a £20 note.

How much change should Katie get?

£ .....

(Total for Question 7 is 3 marks)

Walkthrough	Worksheet

8 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 nth term of this sequence.

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

(a) ..... (2)

(b) ..... (1)

(Total for Question 8 is 3 marks)

Walkthrough	Worksheet

9 A supermarket sells two different pack sizes of coffee:

Regular jar: 200 g for £4.50

Large jar: 350 g for £7.35

A special offer gives 20% off the price of the large jar.

Which jar offers the best value for money?

You must show all your working.

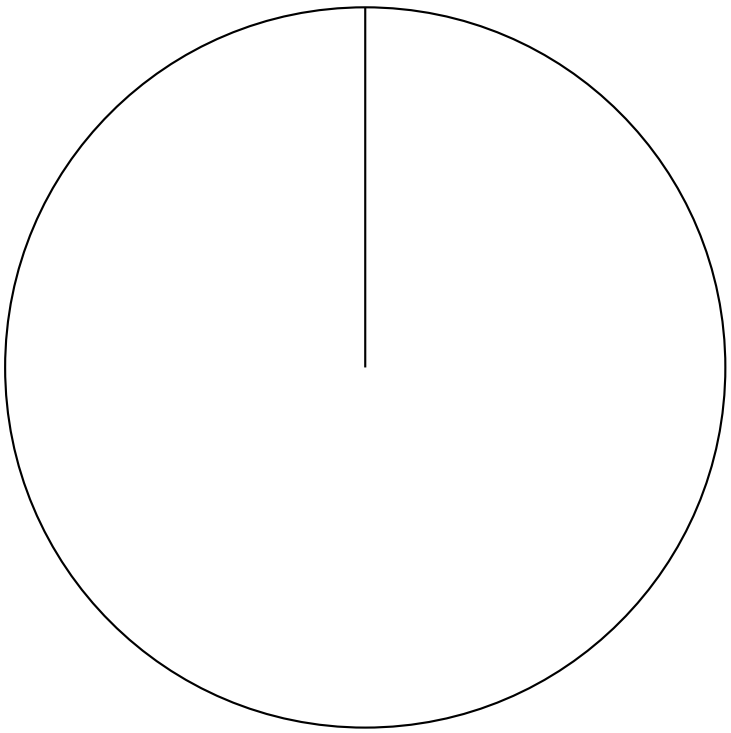
(Total for Question 9 is 3 marks)

Walkthrough	Worksheet

10 The table gives information about the number of goals scored by each of three teams.

Team	Number of goals
Albion	36
Rangers	30
Town	24

Draw an accurate pie chart for this information.



(Total for Question 10 is 3 marks)

Walkthrough	Worksheet

11 Make c the subject of t= 4c + d

.....

(2)

(Total for Question 11 is 2 marks)

Model Solution	Practice Perfect Questions

12 Work out $(3.6 \times 10^{22}) \div (4.5 \times 10^{-6})$.

Give your answer in standard form.

.....

(Total for Question 12 is 3 marks)

Walkthrough	Worksheet

13 Express 5040 as a product of powers of its prime factors.

Show your working clearly.

.....

(Total for Question 13 is 2 marks)

Walkthrough	Worksheet

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 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 15 is 3 marks)

Model Solution	Practice Perfect Questions

16 A train travels 135 km in 1 hour and 30 minutes. Work out the average speed of the train in m/s.

(Total for Question 16 is 3 marks)

Model Solution	Practice Perfect Questions

17 A bag contains only blue counters, yellow counters, black counters, and orange counters.

The table gives each of the probabilities that, when a counter is taken at random from the bag, the counter will be black or the counter will be orange.

Counter	Blue	Yellow	Black	Orange
Probability			0.15	0.45

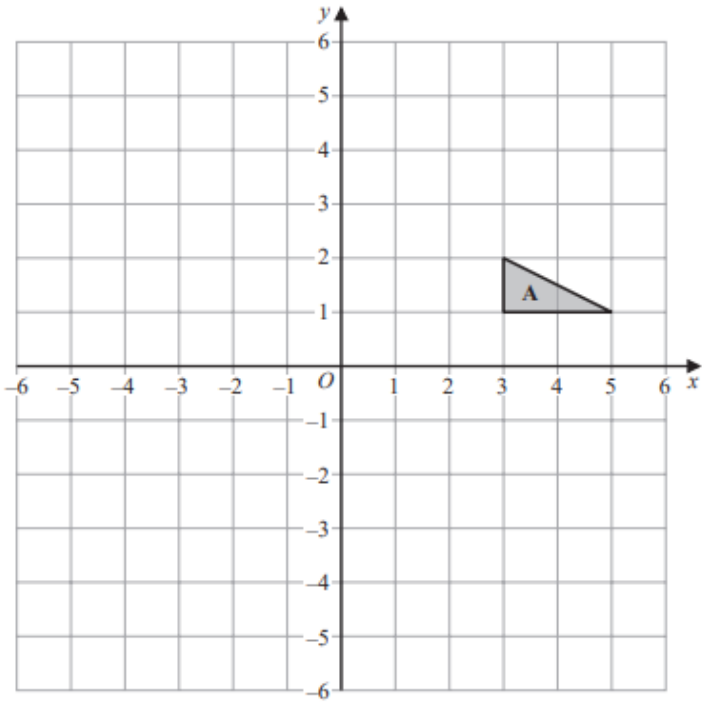
The ratio of the number of blue counters to the number of yellow counters is 3 : 5.
There are 54 orange counters in the bag.
Work out the number of blue counters in the bag.

(4)

(Total for Question 17 is 4 marks)

Model Solution	Practice Perfect Questions

18



(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 18 is 4 marks)

Model Solution	Practice Perfect Questions

19 a) Expand and simplify $(x - 4)(x + 7)$.

.....

(2)

Model Solution	Practice Perfect Questions

(b) Factorise fully $18c^5w^2 + 30cw^3$

.....

(2)

Model Solution	Practice Perfect Questions

(c) Solve

$$\frac{7x - 2}{4} = 3x + 1$$

Show clear algebraic working.

(3)

Model Solution	Practice Perfect Questions

(Total for Question 19 is 7 marks)

20 Carlos changes £600 into Euros (€).
The exchange rate is £1 = €1.15.
Carlos divides his Euros into money to spend and money to save in the ratio 3: 2.
He changes the money to save back into Pounds (£).
The new exchange rate is £1 = €1.18.
Work out how many Pounds (£) Carlos receives.
Give your answer to the nearest penny.

(Total for Question 20 is 5 marks)

Model Solution	Practice Perfect Questions

21 4 workers take 9 hours to build 1 wall.

How many hours will 6 workers take to build 5 of these walls?

..... hours

(Total for Question 21 is 3 marks)

Walkthrough	Worksheet

22 Tom wants to invest £3500 for 2 years in the same bank.

Global Savings

Compound Interest

3.5% for the first year

1.5% for each extra year

Local Trust

Compound Interest

4.5% for the first year

0.75% for each extra year

At the end of 2 years, Tom wants to have as much money as possible.

Which bank should Tom invest the £3500 in?

You must show your working.

(Total for Question 22 is 4 marks)

Walkthrough	Worksheet

23 A line passes through the point (0, -5).

The gradient of this line is 3.

Write down the equation of this line.

(Total for Question 23 is 2 marks)

Walkthrough	Worksheet

24 Solve the simultaneous equations:

$3x + 2y = 16$

$4x - 3y = 27$

Show clear algebraic working.

.....

(Total for Question 24 is 3 marks)

Walkthrough	Worksheet

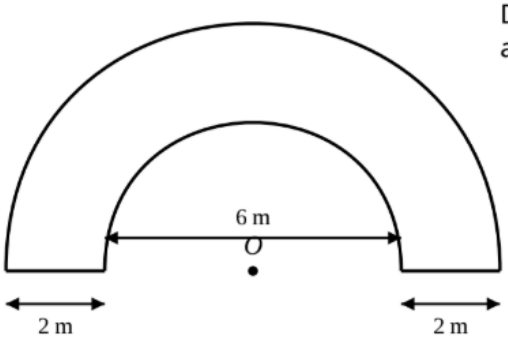
25

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

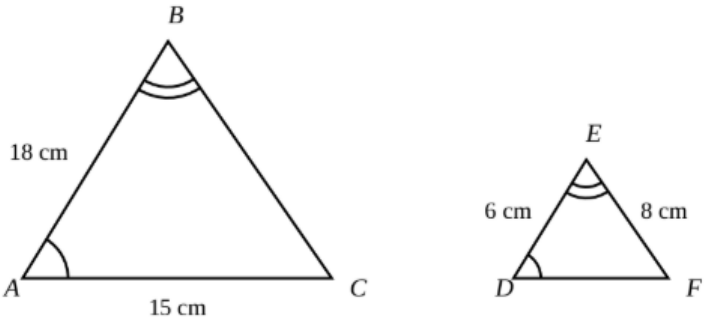
26 A solid cylinder has a radius of 4.5 cm and a height of 10 cm. Calculate the volume of the cylinder. Give your answer correct to 3 significant figures.

(Total for Question 26 is 3 marks)

Model Solution	Practice Perfect Questions

27 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 27 is 4 marks)

Model Solution	Practice Perfect Questions