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4MA1 Nov 2026 Paper 1 Best Guess Paper

----- Disclaimer -----

This practice paper has been designed using a careful analysis of historical exam trends to identify topics highly likely to appear in the 1F paper. It is an excellent revision tool specifically structured for students targeting a Grade 5. To support this, the paper focuses heavily on essential crossover topics, reducing the amount of grade 1 to 2 content.

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

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

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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 THIRTY-FOUR questions.
Write your answers in the spaces provided.**

You must write down all the stages in your working.

1. a) Write the number 43 020 in words.

(1)

(b) Write down the value of the 3 in the number 43 020.

(1)

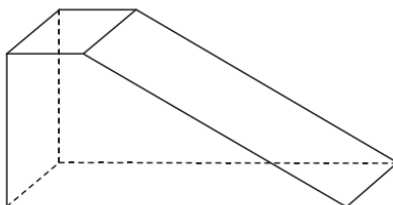
(c) Write 0.486 correct to 2 decimal places.

(1)

(Total for Question 1 is 3 marks)

Model Solution	Practice Perfect Questions
	

2. Here is a solid prism.



(a) Write down the number of faces this prism has.

(1)

(b) Write down the number of vertices this prism has.

(1)

(Total for Question 2 is 2 marks)

Model Solution	Practice Perfect Questions
	

3. (a) Write 8% as a decimal.

(1)

(b) Write $\frac{3}{5}$ as a percentage.

(1)

(c) Write these decimals in order of size.
Start with the smallest decimal. 0.62 0.06 0.602 0.26 0.6

(1)

(Total for Question 3 is 3 marks)

Model Solution	Practice Perfect Questions
	

4. (a) Simplify $5x - 3y + 2x + 7y$

(1)

(b) Simplify $4p \times 3q$

(1)

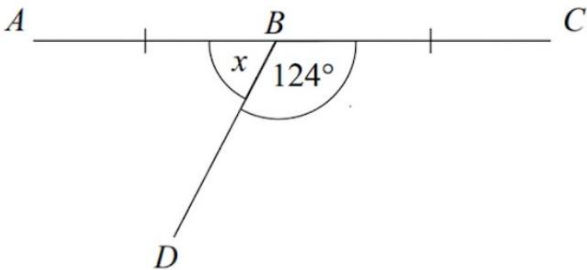
(c) Solve $5m = 35$

(1)

(Total for Question 4 is 3 marks)

Model Solution	Practice Perfect Questions
	

5. ABC is a straight line. Angle $DBC = 124^\circ$.



Work out the size of angle x . Give a reason for your answer

(Total for Question 5 is 2 marks)

Model Solution	Practice Perfect Questions
	

6. A shop has 120 pairs of trainers.
 $\frac{1}{4}$ of the trainers are white.
 30% of the trainers are black.
 The rest of the trainers are grey.
 Work out the number of pairs of grey trainers.

(Total for Question 6 is 3 marks)

Model Solution	Practice Perfect Questions
	

7. Here is a list of the number of runs scored by a cricket player in seven matches:

14 28 14 8 35 12 22

(a) Write down the mode.

(1)

(b) Work out the range.

(2)

(Total for Question 7 is 3 marks)

Model Solution	Practice Perfect Questions
	

8. A rectangle has an area of 42 cm^2 .
The length of the rectangle is 7 cm.
Work out the perimeter of the rectangle.

(3)

(Total for Question 8 is 3 marks)

Model Solution	Practice Perfect Questions
	

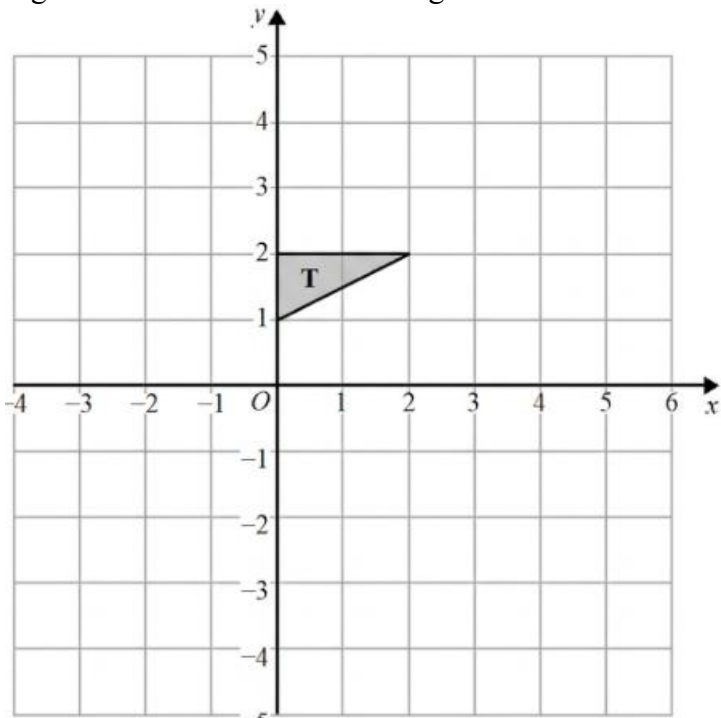
9. Alex, Ben, and Chloe share £140 in the ratio 2: 5: 3.
Work out how much money Ben receives.

(2)

(Total for Question 9 is 2 marks)

Model Solution	Practice Perfect Questions
	

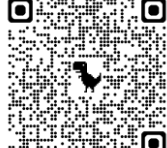
10. A triangle T is drawn on a coordinate grid.



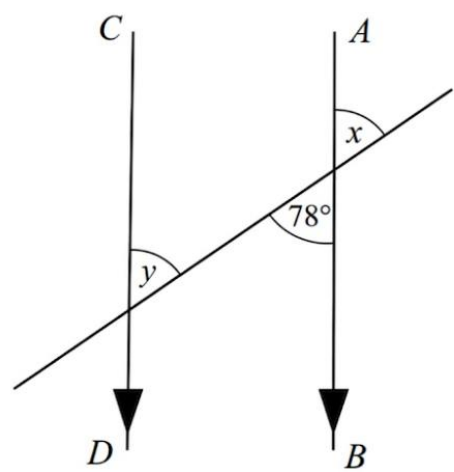
- Translate triangle T by the vector $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$.
Label the new triangle U .

(2)

(Total for Question 10 is 2 marks)

Model Solution	Practice Perfect Questions
	

11. AB and CD are parallel lines.



(a) Write down the size of angle x giving a reason for you answer

(2)

(b) Write down the size of angle y giving a reason for you answer

(2)

(Total for Question 11 is 4 marks)

Model Solution	Practice Perfect Questions
	

12. $v = u + at$ $u = 15, a = -3, t = 4$
 Work out the value of v .

.....
 (2)

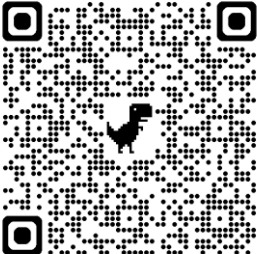
(Total for Question 12 is 2 marks)

Model Solution	Practice Perfect Questions
	

13. Point A has coordinates $(3,8)$.
 Point B has coordinates $(7,-2)$.
 Work out the coordinates of the midpoint of AB .

.....
 (2)

(Total for Question 13 is 2 marks)

Model Solution	Practice Perfect Questions
	

14. A television has a normal price of £450.
 In a sale, the price is reduced by 18%.
 Work out the sale price of the television.

(2)

(Total for Question 12 is 2 marks)

Model Solution	Practice Perfect Questions
	

15. 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 15 is 4 marks)

Model Solution	Practice Perfect Questions
	

- 16 $\mathcal{E} = \{\text{integers from 1 to 12}\}$
 $A = \{\text{factors of 12}\}$
 $B = \{\text{multiples of 3}\}$
 List the members of the set $A \cap B$.

.....
 (2)

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

.....
 (1)

(Total for Question 16 is 3 marks)

Model Solution	Practice Perfect Questions
	

- 17 Show that $3\frac{1}{5} - 1\frac{2}{3} = 1\frac{8}{15}$

(Total for Question 17 is 2 marks)

Model Solution	Practice Perfect Questions
	

18 Express 5040 as a product of powers of its prime factors.
Show your working clearly.

(Total for Question 18 is 2 marks)

Model Solution	Practice Perfect Questions
	

19. Find an expression, in terms of n , for the n th term of the sequence 7, 11, 15, 19, 23

(Total for Question 19 is 2 marks)

Model Solution	Practice Perfect Questions
	

20. Work out $\frac{3.6 \times 10^{22}}{4.5 \times 10^{-6}}$

Give your answer in standard form.

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

Model Solution	Practice Perfect Questions
	

21 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 21 is 7 marks)

22. Solve the simultaneous equations:

$$3x + 2y = 16$$

$$4x - 3y = 27$$

Show clear algebraic working

(Total for Question 22 is 3 marks)

Model Solution	Practice Perfect Questions
	

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

.....
(1)

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

.....
(1)

Model Solution	Practice Perfect Questions
	

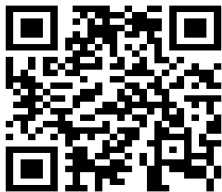
(c) (i) Factorise $x^2 - 10x + 24$

.....
(2)

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

.....
(1)

(Total for Question 23 is 5 marks)

Model Solution	Practice Perfect Questions
	

24 The length of a table is measured as 1.6 metres correct to one decimal place.

(a) Write down the upper bound of the length of the table.

..... metres
(1)

(b) Write down the lower bound of the length of the table.

..... metres
(1)

(Total for Question 24 is 2 marks)

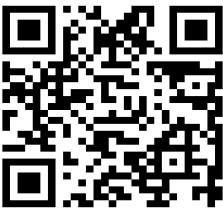
Model Solution	Practice Perfect Questions
	

25 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 25 is 3 marks)

Model Solution	Practice Perfect Questions
	

- 26 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 26 is 5 marks)

Model Solution	Practice Perfect Questions
	

27. Point B is on a bearing of 075° from point A. Work out the bearing of A from B.

(Total for Question 27 is 2 marks)

Model Solution	Practice Perfect Questions
	

28 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 28 is 3 marks)

Model Solution	Practice Perfect Questions
	

29 Find the equation of the line passing through A(1, 4) and B(3, 10). Give your answer in the form $y = mx + c$

(Total for Question 29 is 3 marks)

Model Solution	Practice Perfect Questions
	

30 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 30 is 3 marks)

Model Solution	Practice Perfect Questions
	

31 A regular n -sided polygon has an interior angle of $(10x + 18)^\circ$ and an exterior angle of $(2x - 18)^\circ$.
Work out the value of n .

(3)

(Total for Question 31 is 3 marks)

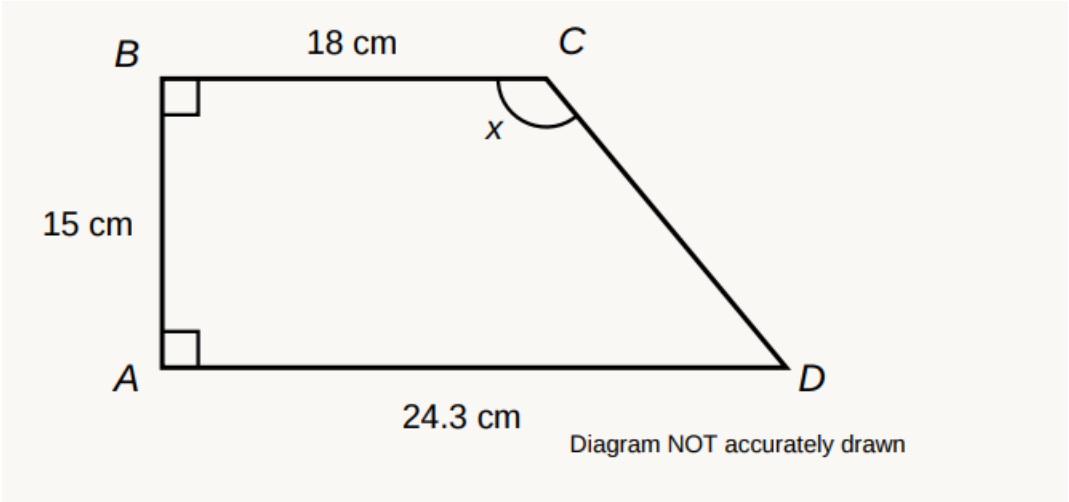
Model Solution	Practice Perfect Questions
	

32 There are 5 red counters and 4 blue counters in a bag.
A counter is taken at random, its colour noted, and it is replaced.
A second counter is then taken.
Work out the probability that both counters are the same colour

(Total for Question 32 is 3 marks)

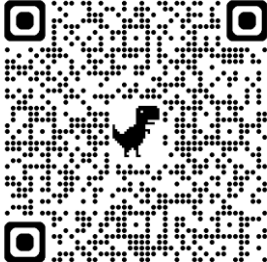
Model Solution	Practice Perfect Questions
	

33 $ABCD$ is a trapezium.



Work out the size of angle x .
Give your answer correct to 1 decimal place.

(Total for Question 33 is 3marks)

Model Solution	Practice Perfect Questions
	

- 34** Elena bought a commercial printing machine for £85,000.
 In the first year, the value of the machine depreciated by 12%.
 In the second year, the value of the machine depreciated by 15%.
 In the third year, the value of the machine increased by $x\%$.
 At the end of the third year, the value of Elena's machine was £66,759.
 Work out the value of x .

(Total for Question 34 is 4 marks)

Model Solution	Practice Perfect Questions
	

TOTAL FOR PAPER = 100 MARKS