

## PRACTICE PAPER FOR

## AQA Paper 2F (June 2025)

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This paper has been created based on the **most common** paper 2/3 topics from previous years and also careful analysis of what topics have already appeared in paper 1. The paper should be excellent at helping students revise for exams, however should not be relied upon as the basis for revision. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. Some topics may appear, some may not. Anybody giving you any sort of guarantee is misleading you. If any topics or questions from this paper do come up, this is just lucky guessing and nothing more. ©

Ultimately the best way to prepare for the exams is to revise all topics.

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1

2 (a)

2 (b)



Answer %



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Do not write outside the 3 Complete the table [3 marks] box Percentage Fraction Decimal <u>1</u> 2 0.5 50% 7%  $\frac{1}{4}$ Simplify 5 + 3 + m + m[1 mark] 4 (a) Answer [1 mark] 4 (b) Simplify  $5 \times 3 \times m \times m$ Answer\_ 8 Turn over ►

Video Solutions

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7	(c)	9 of the students who went bowling were from Mrs Patel's class. 8 of the students who went bowling were from Mrs Chapman's class. The rest of the students who went bowling were from Mrs Lane's class.	
		One of the students on the bowling trip is selected at random.	
		Which teacher's class are they most likely to be from?	
		Tick <b>one</b> box and give a reason for your answer.	[2

Mrs Patel's class

Mrs Chapman's class



Mrs Lane's class

Answer\_

Reason			

A	 B	
Measure the length of line <i>AB</i> . Give your answer in millimetres.		[1 mark]

mm

Turn over ►

5

Do not write outside the box

marks]



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8

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9	The table b	elow shows t	powling scor	es for a fami	ly.			Do not write outside the box
	Player	Lois	Hal	Reese	Malcolm	Dewey		
	Score	110	230	140	132	110		
9 (a)	Write down	the name of	the family m	ember with t	he median sc	ore.	[1 mark]	
		Answer						
9 (b)	Work out th	e range of th	e scores.				[1 mark]	
		Answer_						
10	A bag conta	ains only blue	and red co	unters.				
	number o	of blue counte	ers : number	of red count	ers = 1 : 4			
10 (a)	Write down	the fraction of	of the counte	ers in the bag	that are red.		[1 mark]	
		Answer						
10 (b)	Write down	the percenta	ge of the co	unters in the	bag that are	blue.	[1 mark]	
		Answer				%		



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11 6 countries take part of a football competition.

Group A	Group B
Romania (R)	Denmark (D)
Ukraine (U)	Moldova (M)
Norway (N)	Croatia (C)

One country from group **A** will play one country from **group B** in the final match.

List all the possible pairs of teams that could play in the final match.

The first one has been done for you.

[2 marks]

Do not write outside the box

R D



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box

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15 (c) Here is a set of instructions for how to get from Town C to Town A.

Start at Town C
-----------------

Go North for 5 km

Go \_\_\_\_ for \_\_\_\_\_ \_\_\_km

You will arrive at Town A.

Complete the set of instructions.

[2 marks]

Do not write outside the box

Turn over ►

4



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16	The following formula is used to work out the cost of a party at a hotel.		Do not write outside the box
	Total Cost of Party = £5.50 × Number of Guests + £150 Venue H	lire	
16 (a)	Isabelle wants to book a party for 50 guests. Work out the total cost of the party.	[2 marks]	
	Answer £		
16 (b)	Ethan books a party with a total cost of £546 Work out how many guests Ethan's party has.	[2 marks]	
	Answer	guests	





17 Here is some information about 60 insects collected by a biologist.

25 of the insects have wings and stripes. 70% of the insects have wings.

 $\frac{1}{4}$  of the insects do not have wings or stripes.

**17 (a)** Complete the Venn diagram to represent the information.

 $\xi$  = 60 insects collected by a biologist.

 $\hat{W}$  = insects with wings.

S = insects with stripes.





Do not write outside the

box

[3 marks]

	0 @1stclassmaths 16	
18	Image: Weinstein in the second state of 225 millilities per second.         He fills the pool with a hose at a rate of 225 millilities per second.         Show that Michael will completely fill his paddling pool in less than $\frac{3}{4}$ hour.         [4 marks]	Do not write outside the box
19	A linear sequence starts 40 49 58 67 Work out an expression for the <i>n</i> th term of the sequence. [2 marks]	



	∂ 0 @1stclassmaths 17	
20	Robin plays a game where he must hit a target with a dart.	Do not write outside the box
20 (a)	On Monday, Robin throws a dart at the target 10 times. 6 of his throws hit the target and the rest miss.	
	Write down Robin's relative frequency for hitting the target on Monday. [1 mark]	
	Answer	
20 (b)	On Tuesday, Robin throws a dart at the target 40 times. 27 of these 40 throws hit the target and the rest miss.	
	Write down Robin's relative frequency for hitting the target for all of his throws on both Monday and Tuesday.[1 mark]	
	Answer	
20 (c)	Which of your previous answers is a better estimate for the probability that Robin will hit the target?	
	Tick <b>one</b> box and give a reason for your answer. [1 mark]	
	The answer to part (a) is a better estimate	
	The answer to part (b) is a better estimate	
	Reason	
		9













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19

- Image: Second state of the second state of 20 Do not write outside the 23 The table shows information about the reaction times R, in seconds, of some sprinters at an athletics club. **Reaction Time**, Frequency R (seconds)  $0.10 \le R < 0.12$ 4 22  $0.12 \le R < 0.14$ 13  $0.14 \le R < 0.16$  $0.16 \le R < 0.18$ 21  $0.18 \le R < 0.20$ 20 Write down the modal class. 23 (a) [1 mark]  $\leq R < \_$ Answer\_ 23 (b) Which interval contains the median? You must show your working. [2 marks]
  - $\leq R <$ Answer\_
- Work out the percentage of the sprinters at the athletics club that had a 23 (c) [2 marks] reaction time less than 0.14 seconds.



box

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		@1stclassmaths	21		
24	Zara has She see	s £2500 to invest for 4 yea s two different offers.	S.		
		Offer 1		Offer 2	
		Simple Interest	Comp	ound interest	
		6% per year	4.5	% per year	
	Work ou compare	t how much more interest ed to <b>offer 2</b> .	Zara would receive	by using <b>offer 1</b>	l [4 mark
		Answer £			_



9

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