

PRACTICE PAPER FOR

AQA Paper 3F (June 2023)

------ Disclaimer -----

In 2022 I wrote a series of predicted papers that in many cases reflected the real exam paper very well. This was due to the exam boards providing advance information on the topics that were going to be in each paper. This information is no longer provided so "predicting" a paper is not possible. Nobody can know what topics and types of questions will come up in each paper, apart from the few examiners that write them.

This paper has been created based on the **most common** paper 2/3 topics from previous years as well as careful analysis of the topics that have already appeared in paper 1/2. 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 for the reasons previously mentioned. Some topics may appear, some may not.

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





		Answ	er all questions in	the spaces provi	ded.		Do not write outside the box
1	(a)	Convert 6 metres in	to centimetres.			[1 mark]	
		A	nswer			cm	
1	(b)	Convert 400 grams	into kilograms.			[1 mark]	
		A	nswer			kg	
2		Write down a fractio	on equivalent to $\frac{1}{3}$	5		[1 mark]	
			Answer				
3		Write the following Start with the small	numbers in order. est.			[2 marks]	
		0.24	0.42	0.02	0.2		
		Answer					







Turn over ►

9





-
5
С.

Here are sor	me num	bers							
	8	2	9	12	13	9			
Show that th	ie mean	n of the	numbe	rs is les	s than t	he mod	le of the	e numb	ers.
									[3 marks
Francis think The square i	ks of a v	vhole n nis num	umber. Iber is 1	6.					
Francis think The square i Work out the	ks of a v root of h e numbe	vhole n his num er that f	umber. Iber is 1 Francis	6. thinks o	f.				[2 marks
Francis think The square i Work out the	ks of a v root of h e numbe	vhole n nis num er that F	umber. Iber is 1 Francis	6. thinks o	f.				[2 marks
Francis think The square i Work out the	ks of a v root of h e numbe	vhole n his num er that f	umber. Iber is 1 Francis	6. thinks o	f.				[2 marks
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Francis think The square i Work out the	ks of a v root of h e numbe	vhole n his num er that F	umber. Iber is 1 Francis	6. thinks o	f.				[2 marks



Complete the bank statement

[3 marks]

Date	Description	Credit (£)	Debit (£)	Balance (£)
01/06/23	Starting Balance			
09/06/23	Gas Bill		106.41	322.09
12/06/23	Salary	1527.15		
13/06/23	Phone Bill			1819.24

10 Here is a number machine.



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6



11 (a)	Solve $\frac{w}{4} = 40$	[1 mark]	Do not write outside the box
	Answer		
11 (b)	Rearrange $x - b = a$ to make x the subject.	[1 mark]	
	Answer		
11 (c)	Solve 2 <i>c</i> - 8 > 9	[2 marks]	
	Answer		
		Turn over Þ	9



12 (c)	On the centimetre grid below draw a plan view of the square-b	based pyramid
	Use a scale of 1 centimetre represents 3 metres	[2 marks]

Do not write outside the box

Turn over ►

Do not write outside the box

[2 marks] 13 (b) On the grid, draw an enlargement of the triangle with scale factor 3.

4

Do not write outside the box

Do not write
outside the
box

14 (a) A bag contains only red, blue or green counters.

The probability of selecting a red counter is 0.7 The probability of selecting a blue counter is the same as the probability of selecting a green counter.

Work out her probability of selecting a blue counter.

[2 marks]

Answer

14 (b) A counter is taken from the bag at random. The colour of the counter is noted and then it is replaced into the bag.

This is repeated 200 times.

Work out an estimate for the number of times a red counter is taken from the bag. [2 marks]

Answer

6 (a)	Use your calculator to work out the value of $\frac{29.79^3}{0.49}$ Write down your full calculator display.	[1 mark]
	Answer	-
6 (b)	Use approximations to 1 significant figure to check if your answer to part (a) is sensible.	[3 marks]
	Tick a box	
	Tick a box Sensible Not sensible	
	Tick a box Sensible Not sensible Two inequalities are represented on the number line below.	
	Tick a box Sensible Not sensible Two inequalities are represented on the number line below.	
	Tick a box Sensible Not sensible Two inequalities are represented on the number line below. $\int_{-7}^{-6} -5 -4 -3 -2 -1 0 1 2 3 4$	► x

Answer			

Work out the highest common factor (HCF) of 63 and 105 [2 marks]						
	Answer					
Here is some	information about age of	25 cars for sale at a c	car dealership.			
	Age of car (years)	Number of cars	_			
	0	12				
	1	4	_			
	2	4				
	3	4				
	4	1				
Write down th	ne modal age of the cars.		[1 mark]			
	Answer					
Work out the	median age of the cars.		[2 marks]			

22 Here are two circles with centre O.

The radius of the smaller circle is OA. The radius of the larger circle is OB. AB = 6cm.

OA : AB = 3 : 1

Calculate the shaded area. Give your answer to 1 decimal place.

[4 marks]

Answer ____

cm²

Do not write outside the box

							Do ou
У	y is direc	tly proportion	al to x				
C	Complete	e the table.				[2 marks]	
		у	3	30			
		x	30		15		
	(7100)2						
	$\frac{7}{7^{-50}}$ =	= 7 ^k					
	Work ou	ut the value of	k			[2 marks]	
	Work ou	ut the value of	k			[2 marks]	
	Work ou	ut the value of	k			[2 marks]	
	Work ou	ut the value of	k			[2 marks]	
	Work ou	ut the value of	<i>k</i>			[2 marks]	
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