Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					

In the style of



General Certificate of Secondary Education Foundation Tier

Mathematics

43602F

Past Paper Type Questions by Topic

Fractions, Decimals and Percentages



For Examiner's Use

Examiner's Initials

Mark

Pages

2 - 3

4 - 5

6 - 7

8 - 9

10 - 11

12 - 13

TOTAL

For this paper you must have:

- a calculator
- mathematical instruments.



Time allowed

• 1 hour

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is.
- The quality of your written communication is specifically assessed in some questions. These questions are indicated with an asterisk (*)
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer booklet.

Advice

• In all calculations, show clearly how you work out your answer.

	(3)
	Answer
	Work out how much he now makes.
	His profits rise by 6%.
l.	Terry owns a business that makes £3000 per month.

2(a)	David wins a race.	
	His time is recorded as 50.36 seconds.	
	Ron comes second in the race.	
	His time is three-hundredths of a second	
	slower.	
	Work out Ron's time.	
		(2 marks)
2(b)	Round David's time of 50.36 seconds to 1 decimal place.	
		(1 mark)

3	Write a number in each box to make correct statements.	
3 (a)	50% = 2	
3 (b)	0.9 = 10	(1 mark)
3 (c)	$\frac{1}{3} = \frac{}{6}$	(1 mark)
3 (d)	3 15 = 5	(1 mark)
		(1 mark)

1.0					_				
* 4	Two	banks	calculate	the	yearly	interest	they	pay	customers.

Lancashire Bank

4% of the total that you invest

For example: Invest £700 Interest = 4% of

£700

Cheshire Bank

1% of the first £300 that you invest 6% of amounts over £300 that you invest

For example: Invest £700 Interest =1% of £300 + 6% of £400

Tara has £500 to invest for one year.

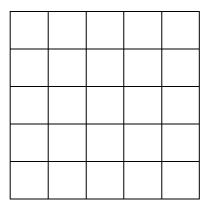
Work out which bank will pay her more
interest. State how much extra interest she
will earn.
Bank
Extra Interest £
(5 marks)



5	There are 160 people on
	a plane. 20% are children.
	One-half are men.
	The rest are women.
	How many women are on the plane?
	Answer
	(4 marks)

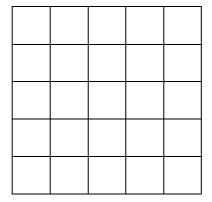


6 (a) Shade $\frac{7}{25}$ of this square grid.



(1 mark)

6 (b) Shade $\frac{3}{5}$ of this square grid.



(1 mark)

6 (c) Use your answers to part (a) and part (b) to write down the answer to $\frac{3}{5} - \frac{7}{25}$

Answer

(1 mark)

6 (d) Work out $\frac{2}{3}$ of 27

.....

Answer.....

(2 marks)



∗6 (a)	Here are five r	numbers.				
	3	13	20	43	81	
	Make a fractio	n with a value	between 3 and	4.		
	Use one of the	e numbers for	the numerator a	nd one of the nu	imbers for the	denominator.
	Answ	/er				(0)
						(2 marks)
6 (b)	Which is bigge	er $\frac{13}{3}$ or $\frac{81}{20}$?	,			
	You must sho	w your workin	g.			
			• • • • • • • • • • • • • • • • • • • •			
	Answ	/er				(3 marks)

7 (a)	Work out $\frac{1}{4} + \frac{1}{3}$						
	You may use this grid to	help you.					
						1	
				•••••		•••••	• • • • • • • • • • • • • • • • • • • •
			• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	Answer						
							(2 marks)
7 (b)	There are 24 people in	a bus.					
	One-third of them are m	en who w	ear glass	es.			
	One-quarter of them are	women.					
	How many men do not v	wear glass	es?				
		•	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •
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	Answer						
							(2 marks)

*8	Helen	is going on holi	day to Spain.		
8 (a)	The	_	into Euros. S £1 = 1.17 Euros Des she receive?		
			Answer	Euros <i>(2</i>	 2 marks)
8 (b)	The	exchange rate i	es she receive?		
8 (c)	She		or one week. car for at least 5 days. advertise their charges.	Euros <i>(</i> 2	
			Fixed amount (Euros)	Additional cost per day (Euros)	
		Eurodrive	100	14	_
		Coolcar	60	20	_
		Zedcars	0	35	
		•	est firm for Helen for difference is of your working and con	ent numbers of days of car clusions.	
				(6	 6 marks)



9	Work out $8^2 \div 4^3$
	Answer (2 marks)
10	You are given that $32.7 \times 26 = 850.2$
10 (a)	Write down the value of 327×26
	Answer (1 mark)
10 (b)	Write down the value of 85.02 ÷ 26
	Answer (1 mark)
10 (c)	Work out the value of 32.7×27
***************************************	Answer

Divide £600 in the ratio 9:6:5
Answer(3 marks
What fraction is half way between $\frac{1}{4}$ and $\frac{1}{8}$? Give your answer as a fraction in its simplest form.
Answer £(3 marks
Work out the cost of one child ticket.



She sel	Sophie sells jars of honey in her shop. s 80 jars to sell at £3 each. Is 50 jars and then reduces the price by 40%. Sophie Ils the remaining jars at the reduced price.
	It costs her £95 to get the jars of honey. Her target is to make a profit of at least £100.
	Does she meet her target? You must show your working.
	(5 marks)
	(o mans)



Write ¹ / ₄ as a percentage.	
Answer %	(1 mark)
Write 30% as a decimal.	
Answer	(1 mark)
i) Write $\frac{1}{4}$, 30% and 0.2 in order with the smallest first.	
Answer	(1 mark)
Complete the following.	
$\frac{2}{3} = \frac{2}{18}$	<i>a</i>
15	(1 mark)
$=\frac{10}{4}$	(1 mark)
Work out $\frac{3}{8}$ as a decimal.	
Answer	(2 marks)
	Answer

16 (a)	vvork out the d	vvork out the difference between						
		10% of 350	and	$\frac{1}{2}$ of 76				
	Answer							
	, w.c.we.				(3 marks)			
40 (h)	M/rito in order	of circu						
16 (b)	Write in order	of size:						
		$\frac{1}{4}$	0.205	0.2				
	Start with the smallest.							
	You must show	v your working.						
	Smalles	t	•••••••					
	Largest							
					(2 marks)			

