GCSE 9 - 1 Questions

Recurring Decimals

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You should have a ruler, compass and protractor where required.

Total Marks :			

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L) <i>(a)</i>	Express 0·274 as a fraction.	[2]

(b)	Express 0.004 as a fraction.	[2]
•••••		
c) 1	Express 0.428 as a fraction.	

•••••		
•••••		
		[2

2) (a) Which of $\frac{3}{4}$, $\frac{3}{5}$, $\frac{3}{6}$, $\frac{3}{7}$, $\frac{3}{8}$, is a recurring decimal?

Answer _____ [1]

(b) Express $\frac{4}{11}$ as a recurring decimal.

Answer _____ [1]

3) Express $0.4\dot{3}\dot{5}$ as a fraction.

4) (a) Write 2.35 as a fraction	4)	(a)	Write	2.35	as	a	fraction	1.
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		A	Answer	[2]
(b)	Write $\frac{12}{99}$ as a recurring of	lecimal.		[2]
		ing fractions into a decimal. decimal is terminating or r		[4]
	Dacimal	Torminating or requiring?		
	3 11	Terminating or recurring?		
******		Torminating or requiring?		

	Answer	[2]
6) Express 0-85 as a fraction.		[2]
7) Express 0·36 as a fraction.		[2]

[3]

8) (a) Complete the following table.

Fraction	Decimal	Recurring or terminating?
1/3	0.3	
<u>5</u> 8		
3 11		

	***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 	***************************************
(b)	Evaluate 33	3 × 0·51.				[3]
	•••••				 	
• • • • • • • • • • • • • • • • • • • •	•••••				 	•••••
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(c) Write $\frac{13}{99}$ as a recurring decimal.		
		[2]
9) Change the recurring decimal 0.83 to a	fraction.	
You must show all your working.		
	Answer	[2]
₁₀₎ Express 0⋅346 as a fraction.		[2]
		•••••

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11) Express 0-752 as a fraction.	
	[2]
12) Express 0·74 as a fraction.	[2]
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	
12) Express 0·74 as a fraction.	[2]
	[2]

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[4] Express 0·381 as a fraction.	
14) Express 0·381 as a fraction.	
4) Express 0·381 as a fraction.	*******
4) Express 0·381 as a fraction.	********
4) Express 0·381 as a fraction.	

	[2
	[2
	_

Is this a recurring or terminating decimal?

recurring

15) Complete the following table. The fraction must be expressed in its simplest form.

Decimal

0.6

0.15

Fraction

 $\frac{2}{3}$

7

[3]

	11	******		
1.22.4.12.4.23.24.4.4	*****************************	***************************************		***************************************
************************	**************	********************	ii	
Evelvet.	. 1 . 004		avvan an a fanatina	[0]
16) ^{Evaluat}	$\frac{1}{3} + 0.04$, exp	pressing your an	swer as a fraction.	[3]
16) Evaluat	$\frac{1}{3} + 0.04$, exp	pressing your an	swer as a fraction.	[3]
16) Evaluat	$\frac{1}{3} + 0.04$, exp	pressing your an	swer as a fraction.	[3]
16) Evaluat	$\frac{1}{3} + 0.04$, exp	pressing your an	swer as a fraction.	[3]
16) Evaluat	e 1/3 + 0.04, exp	pressing your an	swer as a fraction.	[3]
			swer as a fraction.	

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