SMART EXAM RESOURCES

0580 EXTENDED MATH

TOPIC: NUMBERS

SUB-TOPIC: FRACTIONS

CONVERT RECURRING FRACTIONS TO DECIMALS

SET-1-QP-MS

	Write the recurring decimal	0.7 as a fraction.			 	[1]
MAR	RK SCHEME:		<u> </u>	<u> </u>		
	$\frac{7}{9}$		1			

Write the recurring decimal 0.47 as a fraction. Show all your working.

.....[2

47.77– 4.77 oe	M1	
43 / 90		Allow equivalent fractions If M0 then SC1 for $\frac{43}{90}$ or equivalent fraction with no/insufficient working

3	Write the recurring decimal	0 63	as a fraction
	write the reculring decimal	0.03	as a maction

	E 4 7

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1	Write the recurring decimal 0.63 as a fraction in its lowest terms.
4	You must show all your working.

.....[3]

$10^{k+2} \times [0].\dot{6}\dot{3} - 10^k \times [0].\dot{6}\dot{3}$ oe where $k > 1$	M1	
$\frac{63}{99}$ or equivalent fraction	A1	e.g. $\frac{6300}{9900}$ but not $\frac{7}{11}$
7 11	B1	

Write the recurring decimal 0.32 as a fraction. [0.32 means 0.3222...]

.....[2]

or B1 for $\frac{\kappa}{90}$	$\frac{29}{90}$ oe, must be a fraction $\frac{2}{\text{or } \mathbf{R1} \text{ for } \frac{k}{m}}$
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Write the recurring decimal 0.25 as a fraction.

[0.25 means 0.2555...]

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	$\frac{23}{90}$ oe, must be fraction	M1 for $25.\dot{5} - 2.\dot{5}$ oe e.g. $2.55^{r} - 0.25^{r}$ or B1 for $\frac{k}{90}$

7	Write the red	curring decima	ıl 0.27 a	s a fraction.
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	[11
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		<u> </u>
$\frac{3}{11}$ oe fraction	1	
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Write the recurring decimal 0.17 as a fraction in its simplest form. You must show all your working.

.....[3]

17.77 – 1.77 oe	M1	M1 for correct working shown
$\frac{8}{45}$ cao	A2	B1 for $\frac{16}{90}$ oe seen

Write the recurring decimal $0.1\dot{5}$ as a fraction. [0.1 $\dot{5}$ means 0.1555...]

$\frac{14}{90}$ oe must be fraction 2 M1 for $15.\dot{5} - 1.\dot{5}$ oe or B1 for $\frac{k}{90}$	
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(b) Write the recurring decimal $0.\dot{1}\dot{8}$ as a fraction in its lowest terms. [$0.\dot{1}\dot{8}$ means 0.181818...]

.....[2]

(/	$\frac{1}{8}$ cao	1	
(b)	<u>2</u> 11	2	M1 for $18.18-0.18$ oe or B1 for $\frac{2k}{11k}$ (k not 0 or 1)