

SMART EXAM RESOURCES

0580 EXTENDED MATH

TOPIC: NUMBERS

SUB-TOPIC: FRACTIONS

CONVERT RECURRING FRACTIONS TO DECIMALS

SET-2-QP-MS

- 1 Write the recurring decimal  $0.\dot{2}$  as a fraction.  
[ $0.\dot{2}$  means  $0.222\dots$ ]

..... [2]

MARK SCHEME:

	$\frac{2}{9}$ oe, must be a fraction	2	<b>M1</b> for $2.\dot{2} - 0.\dot{2}$ oe or <b>B1</b> for $\frac{k}{9}$
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- 2 Write the recurring decimal  $0.\dot{4}8$  as a fraction.  
Show all your working.

..... [2]

**MARK SCHEME:**

$48.\dot{4}8 - 0.\dot{4}8$ oe	<b>M1</b>	<b>SC1</b> for $\frac{48}{99}$ or $\frac{16}{33}$ or equivalent fraction with no/insufficient working
$\frac{48}{99}$ or $\frac{16}{33}$ or equivalent fraction	<b>A1</b>	

3

Change the recurring decimal  $0.1\overline{8}$  to a fraction.  
You must show all your working.

..... [2]

**MARK SCHEME:**

$1.88... - 0.188... \text{ oe}$	<b>M1</b>	e.g. $18.88... - 1.88... \text{ or } 18.88... - 0.188...$
$\frac{17}{90}$ or equivalent fraction	<b>B1</b>	

- 4 Write the recurring decimal  $0.\dot{6}\dot{7}$  as a fraction.  
 Show all your working and give your answer in its simplest form.

..... [2]

**MARK SCHEME:**

$67.\dot{7} - 6.\dot{7} \text{ oe}$	<b>M1</b>	
$\frac{61}{90}$	<b>A1</b>	If 0 scored, <b>SC1</b> for $\frac{k}{90}$

..... [3]