

SMART EXAM RESOURCES
STAGE 9 MATHEMATICS
TOPIC QUESTIONS
TOPIC: DECIMALS /PERCENTAGES/ FRACTIONS
SET-1

1.

Write the recurring decimal $0.\dot{2}5$ as a fraction.
[$0.\dot{2}5$ means $0.2555\dots$]

Answer [2]

MARK SCHEME 1:

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

Write the recurring decimal $0.\dot{1}5$ as a fraction.
[$0.\dot{1}5$ means $0.1555\dots$]

Answer [2]

MARK SCHEME 2:

$\frac{14}{90}$ oe must be fraction	2	M1 for $15.\dot{5} - 1.\dot{5}$ oe or B1 for $\frac{k}{90}$
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3.

Write the recurring decimal $0.\dot{3}2$ as a fraction.
[$0.\dot{3}2$ means $0.3222\dots$]

..... [2]

MARK SCHEME 3:

	$\frac{29}{90}$ oe, must be a fraction	2	M1 for $32.\dot{2}-3.\dot{2}$ or B1 for $\frac{k}{90}$
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4.

Write the recurring decimal $0.3\dot{6}$ as a fraction.

Give your answer in its simplest form.

[$0.3\dot{6}$ means $0.3666\dots$]

..... [3]

MARK SCHEME 4:

	$\frac{11}{30}$ cao	3	B2 for $\frac{33}{90}$ oe as final answer or M1 for $36.\dot{6} - 3.\dot{6}$ or $36.6^r - 3.6^r$ oe or B1 for $\frac{k}{90}$
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5.

- (a) Write \$0.70 as a fraction of \$5.60, giving your answer in its lowest terms.

..... [1]

- (b) Write the recurring decimal $0.\dot{1}8$ as a fraction in its lowest terms.
[$0.\dot{1}8$ means $0.181818\dots$]

..... [2]

MARK SCHEME 5:

(a)	$\frac{1}{8}$ cao	1	
(b)	$\frac{2}{11}$	2	M1 for $18.\dot{1}\dot{8}-0.\dot{1}\dot{8}$ oe or B1 for $\frac{2k}{11k}$ (k not 0 or 1)