

Fractions and Recurring Decimals Mark Scheme		
1(a)	$\frac{4}{6}$	[1] Correctly identified fraction
1(b)	0.91 $\dot{6}$	[1] Convert fraction to decimal
1(c)	$\frac{6}{9}$	[1] Correctly identified fraction
2	$7 \div 12$ using the bus stop method	[1] By bus stop method or otherwise
	0.58 $\dot{3}$	[1] Correct decimal
3	$x = 0.\dot{2}5$ $100x = 25.\dot{2}5$	[1] Finding 100x
	$100x - x = 99x$ $25.\dot{2}5 - 0.\dot{2}5 = 25$ $99x = 25$	[1] Difference to find 99x
	$x = \frac{25}{99}$	[1] Write x as a fraction over 99
4	$x = 0.\dot{1}3\dot{5}$ $1000x = 135.\dot{1}3\dot{5}$	[1] Finding 1000x
	$999x = 135$	[1] Difference to find 999x
	$x = \frac{135}{999}, \quad x = \frac{5}{37}$	[1] Write x as a fraction over 999 and simplify
5	$\frac{4}{11}$	[1] Form fraction from question
	$4 \div 11$ using the bus stop method	[1] By bus stop or otherwise
	0.3 $\dot{6}$	[1] Correct decimal
6	In step 2 – Terry using the wrong multiplier $83.\dot{3} \neq 10x$ Should be $83.\dot{3} = 100x$	[1] Identify error and suggest correction
	Step 3: Need to subtract when number after decimal point is equivalent $83.\dot{3} = 10x$ – $0.8\dot{3} = x$ Should be $83.\dot{3} = 100x$ – $8.\dot{3} = 10x$ $75 = 90x$	[1] Identify error and suggest correction
	Step 4: subtracted rather than divide $83 - 9 = x$ $x = 74$ Should be $75 = 90x, \quad x = \frac{75}{90} = \frac{5}{6}$	[1] Identify error and suggest correction

END