mathsgenie.co.uk Please do not write			on this sheet	mathsgenie.co.uk
1 Convert $\frac{2}{9}$ to a decimal.	(2 marks)	11	Prove algebraically that the recurrin	g decimal $0.216$ can be written as $\frac{8}{37}$ (2 marks)
2 Convert $\frac{4}{11}$ to a decimal.	(2 marks)	12	Prove algebraically that the recurrin	g decimal $0.126$ can be written as $\frac{14}{111}$
3 Convert $\frac{5}{6}$ to a decimal. (2 marks)		 13	3 Write 3.254 as a fraction in its simplest form.	
4 Prove algebraically that the recurring decimal $0.8^{\circ}$ can be written as $\frac{8}{9}$ (2 marks)			(3 marks) Write 2.742 as a fraction in its simplest form.	
5 Prove algebraically that the recurring decimal 0.47 can be written as $\frac{43}{90}$ (2 marks)			(3 marks) Write 3.594 as a fraction in its simplest form.	
6 Prove algebraically that the recurring decimal 0.23 can be written as $\frac{7}{30}$			x is an integer such that $1 \le x \le 9$	(3 marks)
7 Write 0.16 as a fraction in i	-		Prove that $0.0x^{\bullet} = \frac{x}{.99}$	(2 marks)
<ul><li>8 Write 0.27 as a fraction in its simplest form.</li><li>(2 marks)</li></ul>		17	Work out: $0.54 \times 0.5$	(4 marks)
9 Write 0.43 as a fraction in its simplest form.			Work out: $0.39 \div 0.63$	(4 marks)
$\frac{(2 \text{ marks})}{10 \text{ Prove algebraically that the recurring decimal } 0.681 \text{ can be written as } \frac{15}{22}$			Work out: $0.0^{•}7 \div 0.18^{•}5$	(+ marks)
	(2 marks)			(4 marks)
Grade 6 Recurring Decimals				Grade 6