

Recurring Decimals *ramp up*

ANSWERS

a Write $\frac{2}{11}$ as a recurring decimal $0.\dot{1}\dot{8}$ a two digit cycle	b Write $\frac{5}{12}$ as a recurring decimal $0.4\dot{1}\dot{6}$ two digits before the cycle	c Which is larger, $0.\dot{6}$ or $0.6\dot{7}$? $0.6\dot{7}$ comparing a recurring decimal	d Does $\frac{7}{40}$ give a terminating or a recurring decimal? <i>terminating</i> the denominator test
e $x = 0.\dot{3}\dot{6}$. Work out $100x - x$ 36 the subtraction that clears the cycle	f Write $0.\dot{2}\dot{7}$ as a fraction in its simplest form $\frac{3}{11}$ two digits over 99, then simplify	g Write $0.8\dot{3}$ as a fraction in its simplest form $\frac{5}{6}$ a fixed digit before the cycle	h Write $0.0\dot{2}$ as a fraction in its simplest form $\frac{1}{45}$ a zero before the cycle
i Write $3.\dot{2}\dot{7}$ as a mixed number in its simplest form $3\frac{3}{11}$ a whole number part	j Write $0.\dot{6} + 0.\dot{5}$ as a mixed number $1\frac{2}{9}$ adding recurring decimals	k Write $0.\dot{4} \times 0.\dot{3}$ as a fraction $\frac{4}{27}$ multiplying recurring decimals	l Work out $2 \div 0.\dot{1}$ 18 dividing by a recurring decimal

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