

Recurring Decimals *ramp up*

ANSWERS

a Write $\frac{1}{3}$ as a recurring decimal $0.\dot{3}$ dot notation for one recurring digit	b Write $\frac{5}{11}$ as a recurring decimal $0.\dot{4}5$ a two digit cycle	c Write $\frac{1}{6}$ as a recurring decimal $0.1\dot{6}$ a digit before the cycle starts	d Write $\frac{3}{7}$ as a recurring decimal $0.\dot{4}2857\dot{1}$ a long cycle (dots on first and last)
e Write $0.\dot{5}$ as a fraction in its simplest form $\frac{5}{9}$ one recurring digit to a fraction	f Write $0.\dot{4}7$ as a fraction in its simplest form $\frac{47}{99}$ a two digit cycle to a fraction	g Write $0.\dot{2}1\dot{6}$ as a fraction in its simplest form $\frac{8}{37}$ a three digit cycle, then simplify	h Write $0.0\dot{6}$ as a fraction in its simplest form $\frac{2}{33}$ a zero inside the cycle
i Write $0.1\dot{6}$ as a fraction in its simplest form $\frac{1}{6}$ one fixed digit, one recurring	j Write $0.1\dot{3}\dot{6}$ as a fraction in its simplest form $\frac{3}{22}$ a two digit cycle after a fixed digit	k Write $2.\dot{3}$ as an improper fraction $\frac{7}{3}$ a recurring decimal above 1	l Write $0.\dot{9}$ as a fraction in its simplest form $\frac{9}{9} = 1$ 0.9 recurring equals 1

The Maths Habit

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