

Recurring Decimals to Fractions

Rewrite these as fractions...

a) $0.444 \dots$

b) $0.454545 \dots$

c) $0.321321321 \dots$

d) $0.1\dot{6}$

e) $0.11\dot{6}$

f) $0.1\dot{1}\dot{6}$

g) $0.101\dot{1}2\dot{3}$

h) $0.\dot{1}4285\dot{7}$

Recurring Decimals to Fractions - **Answers**

Rewrite these as fractions...

$$\text{a) } 0.444 \dots = \frac{4}{9}$$

$$\text{e) } 0.11\dot{6} = \frac{7}{60}$$

$$\text{b) } 0.454545 \dots = \frac{45}{99} = \frac{5}{11}$$

$$\text{f) } 0.1\dot{1}\dot{6} = \frac{11.5}{99} = \frac{23}{198}$$

$$\text{c) } 0.321321 \dots = \frac{321}{999} = \frac{107}{333}$$

$$\text{g) } 0.10112\dot{3} = \frac{101022}{999000} = \frac{16837}{166500}$$

$$\text{d) } 0.1\dot{6} = \frac{15}{90} = \frac{1}{6}$$

$$\text{h) } 0.\dot{1}4285\dot{7} = \frac{142857}{999999} = \frac{1}{7}$$

