

QT Recurring Decimals to Fractions



1. Convert $\frac{5}{11}$ to a decimal

(2 marks)

2. Prove algebraically that the recurring decimal $0.\dot{8}$ can be written as $\frac{8}{9}$

(2 marks)

3. Prove algebraically that the recurring decimal $0.\dot{2}\dot{7}$ can be written as $\frac{3}{11}$

(2 marks)

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4. $\frac{1}{5}$ as a decimal is 0.2. Find the fraction which is equivalent to $0.\dot{2}$

(2 marks)

5. Prove algebraically that the recurring decimal $0.6\dot{8}\dot{1}$ can be written as $\frac{15}{22}$

(3 marks)

6. Convert $0.\dot{1}\dot{6}$ to a fraction. Give your answer in its simplest form.

(3 marks)

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7. Convert $0.\dot{3}\dot{4}$ to a fraction. Give your answer in its simplest form.

(3 marks)

8. Prove algebraically that the recurring decimal $0.\dot{2}\dot{1}\dot{6}$ can be written as $\frac{8}{37}$

(3 marks)

9. Write $2.\dot{1}\dot{6}\dot{5}$ as a mixed number. Give your answer in its simplest form.

(3 marks)

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10. Work out $0.\dot{4}\dot{5} \times 0.\dot{5}$

(4 marks)

11. Work out $0.\dot{0}\dot{7} \div 0.\dot{2}\dot{7}$

(4 marks)