

1 Convert $\frac{2}{9}$ to a decimal.

.....
(Total for question 1 is 2 marks)

2 Convert $\frac{4}{11}$ to a decimal.

.....
(Total for question 2 is 2 marks)

3 Convert $\frac{5}{6}$ to a decimal.

.....
(Total for question 3 is 2 marks)

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

(Total for question 4 is 2 marks)

- 5 Prove algebraically that the recurring decimal $0.4\dot{7}$ can be written as $\frac{43}{90}$

(Total for question 5 is 2 marks)

- 6 Prove algebraically that the recurring decimal $0.2\dot{3}$ can be written as $\frac{7}{30}$

(Total for question 6 is 2 marks)

7 Write $0.1\dot{6}$ as a fraction in its simplest form.

.....
(Total for question 7 is 2 marks)

8 Write $0.2\dot{7}$ as a fraction in its simplest form.

.....
(Total for question 8 is 2 marks)

9 Write $0.4\dot{3}$ as a fraction in its simplest form.

.....
(Total for question 9 is 2 marks)

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

(Total for question 10 is 2 marks)

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

(Total for question 11 is 2 marks)

12 Prove algebraically that the recurring decimal $0.\dot{1}2\dot{6}$ can be written as $\frac{14}{111}$

(Total for question 12 is 2 marks)

13 Write $3.\dot{2}\dot{5}\dot{4}$ as a fraction in its simplest form.

.....
(Total for question 13 is 3 marks)

14 Write $2.\dot{7}\dot{4}\dot{2}$ as a fraction in its simplest form.

.....
(Total for question 14 is 3 marks)

15 Write $3.\dot{5}\dot{9}\dot{4}$ as a fraction in its simplest form.

.....
(Total for question 15 is 3 marks)

16 x is an integer such that $1 \leq x \leq 9$

Prove that $0.\dot{0}\dot{x} = \frac{x}{99}$

.....
(Total for question 16 is 2 marks)

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

.....
(Total for question 17 is 4 marks)

18 Work out: $0.\dot{3}\dot{9} \div 0.\dot{6}\dot{3}$

.....
(Total for question 18 is 4 marks)

19 Work out: $0.0\dot{7} \div 0.\dot{1}8\dot{5}$

.....
(Total for question 19 is 4 marks)
