

13 (a) Use algebra to show that $0.\dot{5}\dot{2} = \frac{63}{110}$

(2)

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15 (a) Use algebra to show that $4.\dot{5}\dot{7} = 4\frac{19}{33}$

(2)



13 Use algebra to show that $0.3\dot{8}\dot{1} = \frac{21}{55}$

(Total for Question 13 is 2 marks)

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16 Use algebra to show that $0.4\dot{3}\dot{8} = \frac{217}{495}$

(Total for Question 16 is 2 marks)



P 7 2 4 4 3 A 0 1 5 2 8

17 (a) Use algebra to show that $0.\overline{436} = \frac{24}{55}$

(2)

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15 Use algebra to show that the recurring decimal $0.2\dot{5}\dot{4} = \frac{14}{55}$

(Total for Question 15 is 2 marks)

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16 Use algebra to show that the recurring decimal $0.28\dot{1}\dot{3} = \frac{557}{1980}$

(Total for Question 16 is 2 marks)

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17 Use algebra to show that $0.\dot{3}\dot{4}\dot{5} = \frac{5}{55}$

(Total for Question 17 is 2 marks)



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16 Use algebra to show that $0.\overline{176} = \frac{35}{198}$

(Total for Question 16 is 2 marks)



P 7 2 7 9 2 A 0 1 7 2 8

18 Use algebra to show that $0.\dot{3}0\dot{6} = \frac{34}{111}$

(Total for Question 18 is 2 marks)

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15 (a) Use algebra to show that $0.\overline{372} = \frac{41}{110}$

(2)

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15 Use algebra to show that $0.\overline{763} = \frac{42}{55}$

(Total for Question 15 is 2 marks)

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13 Use algebra to show that $0.6\dot{8}\dot{1} = \frac{15}{22}$

(Total for Question 13 is 2 marks)

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18 $0.4\dot{x}$ is a recurring decimal.
 x is a whole number such that $1 \leq x \leq 9$

Find, in terms of x , the recurring decimal $0.4\dot{x}$ as a fraction.
Give your fraction in its simplest form.
Show clear algebraic working.

(Total for Question 18 is 3 marks)



P 6 5 9 1 5 R A 0 2 1 2 4