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13 (a) Use algebra to show that  $0.5\dot{7}\dot{2} = \frac{63}{110}$

(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  $0.\dot{3}8\dot{1} = \frac{21}{55}$

(Total for Question 13 is 2 marks)

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16 Use algebra to show that  $0.\dot{4}\dot{3}\dot{8} = \frac{217}{495}$

(Total for Question 16 is 2 marks)



17 (a) Use algebra to show that  $0.4\dot{3}\dot{6} = \frac{24}{55}$

(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  $0.3\dot{4}\dot{5} = \frac{\quad}{55}$

(Total for Question 17 is 2 marks)





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16 Use algebra to show that  $0.1\dot{7}\dot{6} = \frac{35}{198}$

(Total for Question 16 is 2 marks)



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  $0.\dot{3}\dot{7}\dot{2} = \frac{41}{110}$

(2)

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15 Use algebra to show that  $0.\dot{7}\dot{6}\dot{3} = \frac{42}{55}$

(Total for Question 15 is 2 marks)

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13 Use algebra to show that  $0.\dot{6}\dot{8}\dot{1} = \frac{15}{22}$

(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)

