EXAM PAPERS PRACTICE

GCSE Edexcel Math 1MA1 Recurring Decimals Question Paper

"We will help you to achieve A Star "

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Question 1

Prove algebraically that the recurring decimal $0.2\dot{5}$ has the value $\frac{23}{90}$

[2 marks]

Question 2

Use algebra to show that the recurring decimal $0.3\dot{8} = \frac{7}{18}$

[2 marks]

Question 3

Write the recurring decimal $0.2\dot{5}$ as a fraction.
[$0.2\dot{5}$ means 0.2555...]

[2 marks]

Question 4

Write the recurring decimal $0.\dot{3}6$ as a fraction.
Give your answer in its simplest form.
[$0.\dot{3}6$ means $0.3666\ldots$]

[3 marks]

Question 5

Write the recurring decimal $0.\dot{4}$ as a fraction.
[$0.\dot{4}$ means $0.444\ldots$]

[2 marks]

Question 6

Show that the recurring decimal $0.1\dot{7} = \frac{8}{45}$

[2 marks]

Question 7

Use algebra to show that the recurring decimal $0.2\dot{6} = \frac{4}{15}$

[2 marks]

Question 8

Write the recurring decimal $0.\dot{2}$ as a fraction.
[$0.\dot{2}$ means $0.222\ldots$]

[2 marks]

Question 9

Write the recurring decimal $0.32\dot{}$ as a fraction.
[$0.32\dot{}$ means $0.3222\ldots$]

[2 marks]

Question 10

Write these numbers in order of size.
Start with the smallest number.

$0.24\dot{6}\dot{6}$ $0.246\dot{6}$ $0.\dot{2}46\dot{6}$ 0.246

[2 marks]

Question 11

Show that the recurring decimal $0.\dot{3}9\dot{6} = \frac{44}{111}$

[2 marks]

Question 12

Write the recurring decimal $0.6\dot{3}\dot{3}$ as a fraction in its lowest terms.
You must show all your working.

[3 marks]

Question 13

Write the recurring decimal $0.4\dot{\dot{8}}$ as a fraction.
Show all your working.

[2 marks]

Question 14

Express the recurring decimal $0.28\dot{\dot{1}}$ as a fraction in its simplest form.

[3 marks]

Question 15

Using algebra, prove that $0.1\dot{3}\dot{6} \times 0.\dot{2}$ is equal in value to $\frac{1}{33}$

[3 marks]