



Aberdare Community School
Mathematics Department

WJEC GCSE

Higher – Non Calculator
Number

Recurring decimals

Name:

Set:

Date:

Teacher:

22. Express $0.\overline{34}$ as a fraction.

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[2]

22.

(b) Express $0.\dot{2}4\dot{3}$ as a fraction.

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(b) Express $0.5\dot{4}\dot{1}$ as a fraction.

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18.

(c) Express $0.8\dot{4}7$ as a fraction.

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4.

(b) The following fractions can be converted into decimals.

$$\frac{1}{4} \quad \frac{5}{6} \quad \frac{1}{9} \quad \frac{3}{10}$$

Sort them into two groups: terminating decimals **or** recurring decimals.
Show **all** your working.

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Complete the table **using decimal notation**.

Terminating decimals	Recurring decimals

[4]

13.

(b) Express $0.8\dot{2}\dot{3}$ as a fraction.

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12.

(b) Which is the greater $0.\dot{1}\dot{2}$ or $\frac{119}{990}$?

You **must** show **all** your working.

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14. (a) Express $0.\dot{8}\dot{5}$ as a fraction.

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15. (a) Express $0.6\dot{5}2$ as a fraction.

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13. (a) Express $0.\dot{7}\dot{6}4$ as a fraction.

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11. (a) Express $0.0\dot{3}4$ as a fraction.

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12.

(b) Express $0.\dot{4}7\dot{8}$ as a fraction.

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5.

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(c) Write $\frac{13}{99}$ as a recurring decimal.

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(d) Express $\frac{1}{2}\%$ as an equivalent decimal.

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15.

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(b) Express $0.6\dot{5}\dot{2}$ as a fraction.

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11. (a) Express $0.\dot{4}\dot{7}$ as a fraction.

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5.

- (b) Convert each of the following fractions into a decimal **and** state whether or not the decimal is a terminating or recurring decimal.
Show **all** your working.

$$\frac{7}{8}$$

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$$\frac{2}{9}$$

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$$\frac{4}{11}$$

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[4]

12.

(c) Express $0.\dot{4}2\dot{8}$ as a fraction.

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15. (a) Express $0.\dot{4}3\dot{5}$ as a fraction.

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5. Complete the following table.

Fraction	Decimal	Recurring decimal? Yes or No	Terminating decimal? Yes or No
$\frac{2}{5}$			
$\frac{5}{8}$			
$\frac{7}{9}$			
$\frac{2}{11}$			

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8. (a) Express $0.7\dot{5}\dot{2}$ as a fraction.

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16. (a) Express $0.34\overline{27}$ as a fraction.

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Examiner
only

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13. (a) Express $0.0\dot{8}$ as a fraction.

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Examiner
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(b) Express $\frac{12}{99}$ as a recurring decimal.

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(b) Write $\frac{12}{99}$ as a recurring decimal.

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14. (a) Express $0.\dot{3}\dot{6}$ as a fraction.

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