Name: Class: Mark:

1. Complete this table. Write the fractions in their simplest form.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Fraction** |  |  |  |  |  |  |
| **Decimal** |  |  | 0.6 |  | 0. |  |
| **Percentage** |  | 80% |  |  |  | 120% |

2.

a) Which of these fractions are equal to terminating decimals?

b) State the terminating decimals.

3. Show by using division that = 0.75

4.

a) Which of these fractions are equal to recurring decimals?

Use a calculator to help.

b) Use a calculator to find the recurring decimals.

5. State the value of the digit in the 4th decimal place for each of these numbers.

a) 0. b) 0.3 c) 0.

6. Write each of these recurring decimals using the dot notation.

a) 0.7777… b) 0.141414…

c) 0.890189… d) 0.2555…

7. Use division to find the decimal equivalent to

Show your working.   
Give your answer using the dot notation.

8. Use your calculator to find the decimal equivalents of , and

What do you notice about the digits in each of the decimals?

Find the decimal equivalents for , and

Use any patterns you find to predict other decimals equivalents in the family of fractions with a denominator of 14.

Check your predictions with a calculator.