YEAR 8 • FRACTIONS

Converting Between Fractions and Decimals

Name _____ **Date** _____

Show your working. Give fractions in their simplest form where appropriate. Use a bar over any repeating digits.

A. Fractions to decimals

Convert each fraction to a decimal.

1. $\frac{3}{5}$ _____
2. $\frac{7}{8}$ _____
3. $\frac{9}{20}$ _____
4. $\frac{2}{3}$ _____
5. $\frac{5}{6}$ _____
6. $\frac{4}{11}$ _____

B. Decimals to fractions

Convert each decimal to a fraction in its simplest form.

7. 0.45 _____
8. 0.7 _____
9. 1.25 _____
10. 0.06 _____
11. 2.375 _____
12. 0.125 _____

C. Recurring decimals to fractions

Convert each recurring decimal to a fraction in its simplest form.

13. $0.\overline{6}$ _____
14. $0.\overline{18}$ _____
15. $0.2\overline{7}$ _____
16. $1.\overline{3}$ _____

Reasoning

How can you tell, from a fraction in its simplest form, whether its decimal will terminate or recur?

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