Converting Any Fraction to a Decimal (by Dividing)

CAF 1

Instructions: Use 'decimal division' to convert these fractions into decimal values. These all have non-repeating digits. Be sure to show your work!

$$\frac{2}{5} = 0.4$$



Repeating Decimals from Fractions

CAF 2

Instructions: Use 'decimal division' to convert these fractions into decimal values. These all have repeating digits. Be sure to show your work!

Example
$$\frac{1}{6} = 0.1\overline{6}$$

$$0.166$$

$$6)1.000$$

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$$\frac{1}{9} =$$

$$\frac{5}{9} =$$



Long Repeating Decimals from Fractions

CAF 3

Instructions: Use 'decimal division' to convert these fractions into decimal values. These all have long decimal parts, so round off to three decimal places. Be sure to show your work!

$$\frac{1}{7} = 0.143$$

let's just stop here and round off our answer

$$\frac{3}{7} =$$

$$\frac{5}{13} =$$

$$\frac{2}{17} =$$



Converting with a Calculator

CAF 4

Instructions: The following fractions have been converted to decimals with a calculator. Round the answers off to three decimal places or use the repeat symbol to shorten the answer if you see a repeating pattern.

$$\frac{2}{7} = 0.2857142... = 0.286$$

$$\frac{7}{9} = 0.7777777... = 0.7$$

$$\frac{15}{21} = 0.7142857... =$$

$$\frac{19}{33} = 0.5757575... =$$

$$\frac{9}{14} = 0.6428571... = _____$$

$$\frac{9}{23} = 0.3913043... =$$

$$\frac{8}{11} = 0.7272727... =$$

$$\frac{6}{19} = 0.3157894... = _____$$

$$\frac{7}{22} = 0.3181818... =$$

$$\frac{11}{12} = 0.9166666... = _____$$

Instructions: Use a calculator to convert these fractions to decimals. Round off to three decimal places or use the repeat symbol if you see a repeating pattern.

$$\frac{4}{7} = 0.571$$

$$\frac{12}{17} =$$

$$\frac{12}{13} =$$

$$\frac{15}{22} =$$

$$\frac{10}{11} =$$

$$\frac{3}{13} =$$

$$\frac{16}{31} =$$

$$\frac{4}{3} =$$