



Rosary School \ Marj Elhamam

Name :

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Subject: Study sheet (4)

Grade : 6 ()

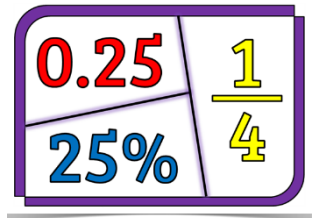
To write a **decimal** as a **fraction**, follow these steps:

- 1) Look at the place value of the last digit (tenths, hundredths or thousandths).
- 2) Write the denominator of your fraction as 10 for the tenths place, 100 for the hundredths place or 1000 for the thousandths place.
- 3) Write all the digits without the decimal point as the numerator.
- 4) Cancel the fraction to its simplest form (if possible).

Example: Write these decimals as fractions in the simplest form if possible.

$$\text{a) } 1.07 = \frac{107}{100}$$

$$\text{b) } 0.8 = \frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$



To write a **fraction** as a **decimal**, follow these steps:

Method 1: Long division

Example: Write these fractions as decimals.

$$\text{a) } \frac{3}{5} = 0.6$$

$$\begin{array}{r} 0.6 \\ 5 \overline{) 3.0} \\ \underline{- 0} \\ 30 \\ \underline{- 30} \\ 00 \end{array}$$

$$\text{b) } \frac{21}{20} = 1.05$$

$$\begin{array}{r} 1.05 \\ 20 \overline{) 21.00} \\ \underline{- 20} \\ 010 \\ \underline{- 00} \\ 100 \\ \underline{- 100} \\ 000 \end{array}$$

$$\text{c) } \frac{2}{25} = 0.08$$

$$\begin{array}{r} 0.08 \\ 25 \overline{) 2.00} \\ \underline{- 0} \\ 20 \\ \underline{- 00} \\ 200 \\ \underline{- 200} \\ 000 \end{array}$$



Method 2:

Step 1: Find a number you can multiply by the denominator to make it 10,100, or 1000

Step 2: Multiply both denominator and numerator by that number.

Step 3: Write down just the numerator, putting the decimal point in the correct spot (one space from the right-hand side for every zero in the denominator)

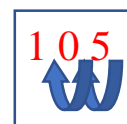
Example: Write these fractions as decimals.

$$a) \frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0.6$$



$$b) \frac{21}{20} = \frac{21 \times 5}{20 \times 5} = \frac{105}{100} = 1.05$$

$$c) \frac{2}{25} = \frac{2 \times 4}{25 \times 4} = \frac{8}{100} = 0.08$$



To write a **fraction** as a **percentage**:

Step 1: Write the fraction as an equivalent fraction having 100 in the denominator.

Step 2: Write down just the **numerator** with the " % " sign.

Example: Write $\frac{4}{50}$ as a percentage.

$$\frac{4 \times 2}{50 \times 2} = \frac{8}{100} = 8 \%$$

To write a **percentage** as a **decimal**:

Step 1: Write the percentage as a fraction.

Step 2: Divide the numerator by 100 by moving the decimal point two places to the left.

Example: Write these percentages as decimals.

$$a) 67\% = \frac{67}{100} = 0.67$$



$$b) 9\% = \frac{9}{100} = 0.09$$

