

Fractions, Decimals and Percentages

You can convert between fractions, decimals and percentages using these methods.

Fractions to Decimals

To convert from fractions to decimals, **divide** the **numerator** by the **denominator**. Carry any remainders to a 0 after a decimal point.

Example:

Convert $\frac{3}{4}$ to a decimal.

$3 \div 4 = 0$, remainder of 3.
 $30 \div 4 = 7$, remainder of 2.
 $20 \div 4 = 5$, no remainder.

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.00} \end{array}$$

$\frac{3}{4}$ as a decimal is **0.75**.

Fractions/Decimals to Percentages

First, **convert the fraction to a decimal**, as shown above.

Then, **multiply your answer by 100** to get to a percentage. To do this, move the decimal point **two places to the right**.

Example:

Convert $\frac{3}{4}$ to a percentage.

From before, $\frac{3}{4}$ as a decimal is 0.75.

$0.75 \times 100 = 75$.

$\frac{3}{4}$ as a percentage is **75%**.

Percentages to Fractions/Decimals

Percentages are the same as a **fraction** with a **denominator** of **100**.

For example, 56% is the same as $\frac{56}{100}$. You can **simplify** this fraction by **dividing** the **numerator** and **denominator** by the **same number**.

$$\frac{56}{100} = \frac{28}{50} = \frac{14}{25}$$

Percentages can be converted to decimals by **dividing by 100**. This is done by moving the decimal point **2 places to the left**. For example, $56 \div 100 = \mathbf{0.56}$

Fractions, Decimals & Percentages

Questions

Fill in the gaps in this table of fractions, decimals and percentages.
Make sure the fractions are in the simplest form as possible.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
		80%
	0.1	
$\frac{1}{4}$		
	0.15	
$\frac{14}{20}$		
		15%