Decimal, Percent, Fraction, Ratio Equivalents

When working with decimals and percents, you may need to add zeros. Remember, you may add as many zeros as you need before and after the number.

0.00069 → 0000**0.0006**900000

100.01 → 00**100.01**00000000

500 → 00000**500**.0000000

Changing Percents to Decimals

- Drop %
- Move decimal point 2 places to the left
- $25\% = 0.25$

Changing Decimals to Percents

- Move decimal point 2 places to the right
- Write %
- $0.25 = 25\%$

Changing Percents to Fractions

- Replace % with $\frac{1}{100}$
- Multiply and reduce fraction to lowest terms
- $25\% = 25 \cdot \frac{1}{100} = \frac{25}{100} = \frac{1}{4}$

Changing Fractions to Percents

- Change fraction to decimal
- Move decimal point 2 places to the right
- Write %
- $\frac{1}{4} = 0.25 = 25\%$

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Decimal, Percent, Fraction, Ratio Equivalents

Decimal	Percent	Fraction	Ratio
Move the decimal 2 places to the left from the percent form.	Move the decimal 2 places to the right from the decimal form.	Divide the percent by 100, then simplify.	Set ratio up as Numerator : Denominator
0.125	12.5%	$\frac{12.5}{100}=\frac{125}{1000}=\frac{1}{8}$	1:8
0.25	25%	$\frac{25}{100}=\frac{1}{4}$	1:4
0.375	37.5%	$\frac{37.5}{100}=\frac{375}{1000}=\frac{3}{8}$	3:8
0.50	50%	$\frac{50}{100}=\frac{1}{2}$	1:2
0.625	62.5%	$\frac{62.5}{100}=\frac{625}{1000}=\frac{5}{8}$	5:8
0.75	75%	$\frac{75}{100}=\frac{3}{4}$	3:4
0.875	87.5%	$\frac{87.5}{100}=\frac{875}{1000}=\frac{7}{8}$	7:8
1.00	100%	$\frac{100}{100}=1$	1:1
1.125	112.5%	$\frac{112.5}{100}=\frac{1125}{1000}=\frac{9}{8}=1\frac{1}{8}$	9:8

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