

Percents

Percents to Fractions

(Remove the percent sign and put the number over 100, reduce to lowest terms)

Example: 4 % = _____

$$\frac{4}{100} \quad \text{Divide numerator and denominator by 4 to reduce} \quad \frac{\underline{4}}{100} = \frac{\underline{1}}{25}$$

Fractions to Percents

(Multiply by 100 , put a % after the answer)

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Example: $\frac{3}{5} =$ _____ %

$$\frac{3}{5} \times \frac{100}{1} = \frac{300}{5} = 60 \quad \text{Answer } 60\%$$

Percents to Decimals

(Drop the % sign and move decimal two places to the LEFT)

Example: 45 % = _____ Answer: .45

Decimals to Percents

(Move decimal two places to the RIGHT and put a % on the answer)

Example: .75 = _____ Answer: 75%

Percent Word Problems

What percent is 6 out of 8? (We are looking for the percent.)

Create a fraction by putting part over whole.

Divide denominator into numerator. (Tip: The number after the word of will always be the denominator.)

Convert the decimal to a percent by moving the decimal two places to the right.

Add a percent sign to the answer.)

$\frac{6}{8} = .75$ Convert .75 into a percent by moving the decimal over two spaces to the right.
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Answer : 75 percent

What is 15% of 24? You are looking for the part.

(Change the word of to a multiplication sign. $15\% \times 24$

Convert the percent to a decimal and multiply $.15 \times 24 = 3.6$

OR

<u>Part</u>	=	<u>percent</u>	<u>x</u>	=	<u>15</u>	$100x = 360$	<u>100x</u>	=	<u>360</u>	$x = 3.6$
Whole		100		24	100		100		100	

\$700 is 20% of what number? You are looking for the whole.

Part = percent

$$\underline{700} = \underline{20}$$

Whole 100

$$x \quad 100$$

Cross multiply

$$700 \times 100 = 20x$$

$$70,000 = 20x$$

Divide both sides by 20

$$X = \$3,500$$