

NUMBERS AND PERCENTS

Numbers and percents refer to the relationship between fractions, decimals, and percents.

- A **percent** is a term that describes a decimal in terms of one hundred. Percent means per hundred.
- Percents, fractions and decimals all can equal each other, as in the case of 10%, 0.1 and $\frac{1}{10}$.
- Fractions and decimals can easily be changed into percent.
- There are **three cases of percent**.



PREVIEW

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To **change a fraction to a decimal or percent**, the fraction must be put into terms of 100 if possible.

- For example, $\frac{3}{4}$ changes into $\frac{75}{100}$. Once it is in this form, it is changed into the decimal, .75 and the percent, 75%.

If the fraction cannot be put into terms of 100 easily, then divide the fraction to get into decimal form.

- For example, $\frac{16}{27}$, when divided is .5925. Take the decimal form and move the decimal point two places to the right to find the percent. So .5925 becomes 59.25%.

With **decimals**, move the decimal point two places to the right to get the percent.

Using the **first of the three cases** of percent, a percentage of a number is taken.

- For example, what is 16% of 45? To find the answer, use the percent equation:

Ex. $x/45 = 16/100 \rightarrow 100x = (45)(16) \rightarrow 100x = 720 \rightarrow x = 7.2$

Using the **second case of percent**, the percent is missing. Again the percent equation can be used.

- For example, if Ken got 78 out of 120 question correct on a test, what percent would that be?

Ex. $78/120 = x/100 \rightarrow (78)(100) = 120x \rightarrow 7800 = 120x \rightarrow x = 65$

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Try

1. V
2. V
3. V

4. What is 44% as a fraction?

5. What is 25% of 82?

6. Five is what percent of 75?

7. Sixteen is 54% of what number?

8. If Roger got 33 questions correct out of 39 questions, what percent would that be?

9. If Dan fixes 64% or 7 of the cars at his shop, how many cars total did he need to fix?



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