

Percents

Date: 9-25-12

Objective: Today we will define and convert percents in order to solve real-world problems.

Notes:

Percent: certain portion of a whole

Some common percents:

1. What is 50% of 100? 50
2. What is 25% of 100? 25
3. What is 10% of 100? 10

What about 25% of 75?

When you have a percent of an uncommon number:

- Change the percent to a decimal.
- Multiply the decimal times the original number

Example: Consider the number 85

63.75

What is 75% of 85?

$$\begin{array}{r} 85 \\ \times .75 \\ \hline 63.75 \end{array}$$

50% of 85?

$$\begin{array}{r} 85 \\ \times .50 \\ \hline 42.5 \end{array}$$

25% of 85?

$$\begin{array}{r} 85 \\ \times .25 \\ \hline 21.25 \end{array}$$

10%?

$$\begin{array}{r} 85 \\ \times .10 \\ \hline 8.5 \end{array}$$

Some common percent applications:**• Sales tax problems**

- > Calculate the tax alone
- > Calculate the tax and add it to the original price for the total.

• Meal tip problems

- > Calculate the tip alone
- > Calculate the tip and add it to the original price for the total.

• Discount problems

- > Calculate the discount alone
- > Calculate the discount and subtract it from the original price.

Exit Ticket