6.4 The Percent Equation

Remember in a mathematical sentence the word "is" represents the equal sign in part = % of the whole the equation.

Be sure to change all PERCENTS into DECIMALS when creating equations!

Write and solve an equation to answer each question.

a = (0.24)(50)

9.5
$$\pm x(25)$$
 $x \pm 38\%$

Ex: 39 (is) 52% of what number?

$$39 = (0.52)(x)$$

 $0.52 = 0.52$
 $x = 75$

$$\frac{18 \pm (0.15)(x)}{0.15}$$

$$0.15$$

$$x \pm 120$$

Find the percent of sales tax on the food total.

tax (is) what % of food total?

1.65 = (x)(27.50)

Find the amount of a 16% tip on the food total.

8th Street Cafe

MAY04'13 05:45PM DATE: TABLE: SERVER: **Food Total** 27.50 1.65 Tax 29.15 Subtotal TIP:

TOTAL:

Thank You