Unit 4: Percent, Ratio, and Rate

Name: \_\_\_\_\_

## 5.3 Solving Percent Problems - Notes (Day 2)

**Type 1:** Finding the Percent

a) What percent is 48 out of 60?

$$\frac{48}{60} = \frac{x}{100}$$

**Type 2:** Finding the Part

b) What is 312% of 26?

$$\frac{P}{N} = \frac{\%}{100}$$

$$\frac{100x = 8112}{100}$$

$$\frac{48}{60} = 0.8 = 80\%$$
decimal

## **Type 3:** Finding the Whole

c) 2.25% of a number is 72. What is the number?

$$\frac{P}{N} = \frac{\%}{100}$$

$$\frac{72}{x}$$
 =  $\frac{2.25}{100}$ 

$$n = 3200$$

$$\frac{2.25 \times -7200}{2.25}$$

$$2.25 \times -3200$$

Percent Increase/Decrease:

The price of a carton of milk in the school cafeteria increased from \$0.95 to \$1.25. What was the percent increase in the price?

% change = New Amount - Original /Old Amount 
$$\times 100$$

=  $\frac{1.25 - 0.95}{0.95} \times 100$ 

=  $\frac{0.3}{0.95} \times 100$ 

The price of a green solad degreesed from \$2.50 to \$1.95

e) The price of a green salad decreased from \$2.50 to \$1.95. What was the percent decrease in the price?

% Change = 
$$\frac{\text{New-Original}}{\text{Original}} \times 100 = \frac{1.95 - 3.50}{3.50} \times 100 = \frac{-0.55}{3.50} \times 100 = -0.22$$

The % decrease is  $23\%$ 

The % decrease is 22%