

Section 8.1A Notes: Percents and Sales Tax

**Warm Up Question:**

A newspaper reports that 64% of 1069 people surveyed said that the president is doing a good job. How many people said the president is doing a good job?

1) Express each fraction as a percent

a)  $\frac{5}{8}$

b)  $\frac{4}{5}$

c)  $\frac{4}{25}$

d)  $\frac{23}{20}$

e)  $\frac{49}{50}$

2) Express each decimal as a percent

a) 0.023

b) 0.45

c) 0.9356

d) 3.1032

e) 0.205

3) Express each percent as a decimal

a) 67%

b) 250%

c) 36.4%

d) 0.73%

e)  $3\frac{3}{4}\%$

4) Use the percent formula  $A=PB$  **A is P percent of B**, to solve the following problems.

a) What percent of 8 is 2.5?

b) 68% of what number is 374?

c) 336 is 56% of what number?

d) 12.3 is what percent of 15?

- 5) Suppose a local sales tax rate is 4.5% and you purchase a car for \$28,500.
- How much sales tax is paid?
  - How much is the total cost of the car?
- 6) Suppose that the local sales tax rate is 6% and you purchase a computer for \$1260.
- How much sales tax is paid?
  - What is the computer's total cost?
- 7) Suppose you go to a restaurant and want to give your waitress a 15% tip. The check total was \$65.00. What is the tip? How much would the total come to?
- 8) You went shopping for clothes during a sale. The sale states that it's 60% off original prices. The original prices are as follows: \$55 for each pair of pants, \$35 for each shirt, and \$49 for each sweater. You want 2 pairs of pants, 3 shirts, and one sweater. What is the discounted amount? How much will you pay for the clothes with a 6% sales tax?
- 9) A coat that regularly sells for \$225 is on sale for \$168.75. What is the percent decrease of the sale price from regular price?
- 10) A store advertises that it will take 150% off the price of all merchandise. What should happen when you go to the counter to buy a \$500 item?

**HW: Sec 8.1 #1,9,11,17,23,27,35-49 odd**