Bell Ringer: 84 is 16% of what number?

$$\frac{84}{x} = \frac{16}{100}$$

$$16x = 8400$$

$$x = 525$$

Solving Percent Problems - Day 2

Real-life Percent Applications

Sales Tax - a tax (fee) charged on the sale of an item or a service provided. Tax is part of a total cost.

Commission - an amount of money paid to a salesperson from the sale of items. A commission is part of a total salary.

1) A salesperson earns a weekly salary of $375 plus a 8% commission on his bicycle sales for the week. If a salesperson's bicycle sales for the week total $4,500, how much is the salesperson's commission? How much is his total paycheck?

$$\frac{c}{4500} = \frac{8}{100}$$

$$100c = 36000$$

$$c = 360$$

$$T.P. = 375 + 360 = \$735$$

2) Taylor purchased a $25 pair of jeans and a $30 sweatshirt. The sales tax rate was 7 1/2%. What was the total cost?

Bought $55

$$\frac{x}{55} = \frac{7.5}{100}$$

Sales Tax = Rate as decimal x cost of items

$$= .075 \cdot 55$$

$$= \$4.13$$

T.C. = 55 + 4.13

= 59.13

3) Mr. Guss purchased a Blueray player for $97.19 including tax. The Blueray player had a sticker price of $89.99. About what percent sales tax did he pay?

Remember Sales Tax is a part

$97.19
-89.99
7.20

$$\frac{7.20}{89.99} = \frac{x\%}{100}$$

$$89.99x = 720$$

$$x = 8\%$$