

Notes 4.1

4% of what number is 76?

$$\frac{.04 \cdot n}{.04} = \frac{76}{.04}$$

$$n = 1900$$

What percent of 210 is 33.6?

$$\frac{p \cdot 210}{210} = \frac{33.6}{210}$$

$$p = .16$$
$$16\%$$

Chauncey wants to buy a pair of jeans costing \$44.50. He knows he will be charged 4.5% sales tax on the jeans. Find the total cost of the jeans including the sales tax.

$$44.50 + .045(44.50) =$$

$$44.50 + \frac{2.01}{\text{sales tax}} = \$46.51$$

$$100\% + 4.5\% = 104.5\%$$

$$1.045(44.50) = \$46.51$$

A bicycle normally costs \$425, but is on sale for 20% off. What is the sale price?

$$425 - .2(425)$$

$$425 - 85 =$$

$$\boxed{\$340 = \text{sales price}}$$

$$100\% - 20\% = 80\%$$

$$.80(425) = \boxed{\$340}$$

A digital camera costs \$250 after a 15% discount. What was the original price of the camera?

$$100\% - 15\% = \underline{\underline{85\%}}$$

$$\frac{.85x}{.85} = \frac{250}{.85}$$

$$x = \boxed{\$294.12}$$

$$1x - .15x = 250$$
$$.85x = 250$$

You pay \$65 after
a 30% discount. What
was orig. price

$$100\% - 30\% = 70\%$$

$$\frac{.7x}{.7} = \frac{65}{.7}$$

$$x = \cancel{\$9}2.86$$