

$$x \times 0.8 \times 0.9 = 150$$

$$\boxed{\$160.26}$$

6.4 Finding the Total

1. 12 is 20% of what?

$$\frac{12}{0.2} = \frac{0.2 \times x}{0.2}$$

$$\boxed{x = 60}$$

2. 25 out of _____ is 30%

$$\frac{25}{x} = \frac{0.3}{1}$$

$$\frac{0.3x}{0.3} = \frac{25}{0.3}$$

$$\boxed{x = 83.\bar{3}}$$

3. 18 is 120% of what?

$$\frac{18}{1.2} = \frac{1.2 \times x}{1.2}$$

$$\boxed{x = 15}$$

4. Suzi spent 20% of her savings, but still had \$26. How much money had Suzi saved originally?

Let x = money Suzi saved originally

$$\frac{x \times 0.8}{0.8} = \frac{26}{0.8}$$

$$x = 32.5$$

\therefore Suzi saved \$32.50 originally

Percent Increase:

1. A man saved \$80 in a certain month, in the following month, he saved \$96. Find the percent increase in his savings.

$$\frac{96-80}{80} \times 100 = 20\%$$

\therefore The percent increase is 20%.

2. If the price of a watch is increased by 20% to \$150, what was the original price?

Let x = the original price

$$\frac{x \times 1.2}{1.2} = \frac{150}{1.2}$$

$$x = 125$$

\therefore The original price was \$125.