

Section 6.2 - Finding Percents

Set up
a
proportion

$$\frac{56}{65} = \frac{x}{100}$$

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

$$65x = 56(100)$$

$$\frac{65x}{65} = \frac{5600}{65}$$

$$x = 86.15$$

$$x \approx 86\%$$

ex: 20. what is 48% of 600?
part whole

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

$$\frac{x}{600} = \frac{48}{100}$$

$$100x = 48(600)$$

$$\frac{100x}{100} = \frac{28,800}{100}$$

$$= 288$$

28. 9 is what percent of 18? 50%
part x whole

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

$$\frac{9}{18} = \frac{x}{100}$$

$$\frac{18x}{18} = \frac{900}{18}$$

$$x = 50\%$$

40. $\underbrace{8}_{\text{part}}$ is $\underbrace{40\%}_{\%}$ of $\underbrace{\text{what number?}}_{\text{whole}}$

$$\frac{8}{X} = \frac{40}{100}$$

$$\frac{40X}{40} = \frac{800}{40}$$

$$X = 20$$

6.3 Applications

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$