

Algebra 0507

Chapter 3

Intro to WS # 21

Name _____

Percent Proportion

$$\frac{15}{\text{of}} = \frac{\%}{100}$$

Set up a proportion and solve.

1. What number is 20% of 100? $\frac{x}{100} = \frac{20}{100}$ $100x = 20(100)$ $100x = 2000$ $x = 20$	2. What percent of 15 is 5? $\frac{5}{15} = \frac{x}{100}$ $5(100) = 15x$ $500 = 15x$ $33.\bar{3}$
3. 12 is 75% of what number? $\frac{12}{x} = \frac{75}{100}$ $12(100) = 75x$ $1200 = 75x$ $x = 16$	4. 5% of 40 is what number? $\frac{x}{40} = \frac{5}{100}$ $100x = 5(40)$ $100x = 200$ $x = 2$
5. What percent of 32 is 8? $\frac{8}{32} = \frac{x}{100}$ $8(100) = 32x$ $800 = 32x$ $x = 25$ 25%	6. What number is 75% of 60? $\frac{x}{60} = \frac{75}{100}$ $100x = 60(75)$ $100x = 4500$ $x = 45$
7. 80% of what number is 60? $\frac{60}{x} = \frac{80}{100}$ $60(100) = 80x$ $6000 = 80x$ $75 = x$	8. 315 is 45% of what number? $\frac{315}{x} = \frac{45}{100}$ $315(100) = 45x$ $31500 = 45x$ $700 = x$