Principles of Algebra

Name/Date __Clee /Today__

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 5B.1 – Percentages

#1-10, Use the percent proportion to find each answer.

1. Find 40% of 60.

$$\frac{x}{60} = \frac{40}{100}$$

$$100x = 2400$$

$$x = 24 \qquad \boxed{24}$$

The Percent Proportion
$$\frac{part}{whole} = \frac{\%}{100}$$

2. 18 is 20% of what number?

$$\frac{18}{x} = \frac{20}{100}$$

$$20x = 1800$$

$$x = 90 \qquad \boxed{90}$$

3. What percent of 20 is 50?

$$\frac{50}{20} = \frac{x}{100}$$

$$20x = 5000$$

$$x = 250 \qquad \boxed{250\%}$$

4. What is 45% of 80?

$$\frac{x}{80} = \frac{45}{100}$$

$$100x = 3600$$

$$x = 36 \qquad \boxed{36}$$

5. 27 is 60% of what number?

$$\frac{27}{x} = \frac{60}{100}$$

$$60x = 2700$$

$$x = 45 \qquad \boxed{45}$$

6. 246 is what percent of 300?

$$\frac{246}{300} = \frac{x}{100}$$

$$300x = 24600$$

$$x = 82 \qquad \boxed{82\%}$$

7. What is 200% of 15?

$$\frac{x}{15} = \frac{200}{100}$$

$$100x = 3000$$

$$x = 30 \qquad \boxed{30}$$

8. What percent of 80 is 60?

$$\frac{60}{80} = \frac{x}{100}$$

$$80x = 6000$$

$$x = 75 \qquad \boxed{75\%}$$

9. Find 180% of 40.

$$\frac{x}{40} = \frac{180}{100}$$

$$100x = 7200$$

$$x = 72 \qquad \boxed{72}$$

10. 139.1 is 65% of what number?

$$\frac{139.1}{x} = \frac{65}{100}$$

$$65x = 13910$$

$$x = 214 \qquad \boxed{214}$$