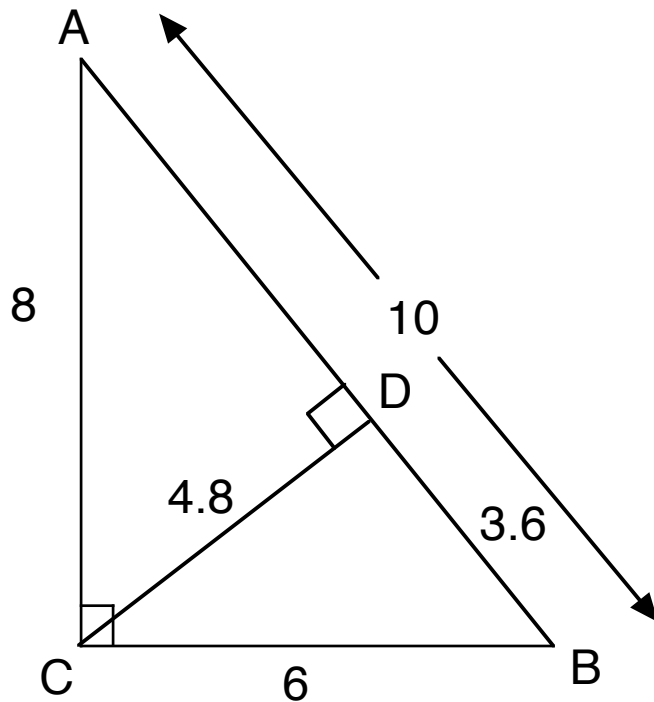


Chapter 5: Similarity
Lesson 5-1: Using Proportions
Homework

Name _____
 Date _____
 Period ____

Express the following as a ratio in simplest terms.

1. 24 to 42 2. 50 minutes to 2 hours 3. 80 centimeters to 3 meters
 4. 9 inches to 2 feet 5. 10 weeks to 35 days



6. $\frac{AC}{AB}$ 7. $\frac{CD}{BD}$
 8. $\frac{AD}{BD}$ 9. $\frac{AC}{BC}$
 10. $\frac{AB}{AD}$

Solve the following proportions.

11. $\frac{2}{3} = \frac{6}{x}$ 12. $\frac{10}{6} = \frac{6}{x}$ 13. $\frac{9}{x} = \frac{x}{16}$ 14. $\frac{8}{7} = \frac{x+5}{x+2}$
 15. $\frac{x-3}{2} = \frac{x+3}{5}$ 16. $\frac{3x-2}{4} = \frac{2x+7}{3}$ 17. $\frac{8x-12.8}{3} = \frac{2x+8}{2.5}$
 18. $\frac{7x-11}{16} = \frac{8x-9}{12}$ 19. $\frac{8x-1}{2} = \frac{8x+7}{5}$ 20. $\frac{9}{x-6} = \frac{27}{2x+4}$