

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

Name _____
Date _____
Period ____

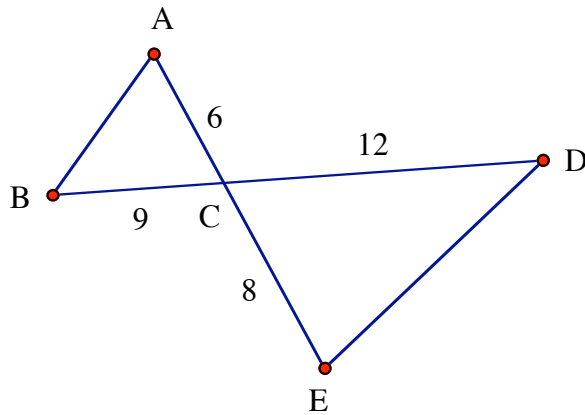
Express the following as a ratio in simplest terms.

1. $\frac{6}{24}$

2. $\frac{9}{12}$

3. $\frac{9}{51}$

4. $\frac{1000}{2500}$



For questions 5 - 10 refer to the above diagram.

5. $\frac{AC}{CE}$

6. $\frac{CE}{AE}$

7. $\frac{AC}{AE}$

8. $\frac{CD}{BC}$

9. $\frac{BD}{CD}$

10. $\frac{BD}{AE}$

Solve the following proportions.

11. $\frac{16}{x} = \frac{4}{3}$

12. $\frac{7x}{5} = \frac{42}{3}$

13. $\frac{5}{8} = \frac{3x}{4}$

14. $\frac{x+2}{4} = \frac{9}{2}$

15. $\frac{x}{3} = \frac{x+2}{5}$

16. $\frac{x-5}{x} = \frac{3}{4}$

17. $\frac{x-1}{x+3} = \frac{3}{5}$

18. $\frac{2x-5}{4} = \frac{4x-7}{4}$

19. $\frac{10-x}{5} = \frac{7-x}{2}$

20. $\frac{12}{4x+9} = \frac{18}{5x-4}$