

7-1

Practice

Form G

Ratios and Proportions

Write the ratio of the first measurement to the second measurement.

1. diameter of a salad plate: 8 in. diameter of a dinner plate: 1 ft
2. garden container width: 2 ft 6 in. garden container length: 8 ft
3. width of a canoe: 28 in. length of a canoe: 12 ft 6 in.
4. height of a book: 11 in. height of a bookshelf: 3 ft 3 in.
6. The perimeter of a rectangle is 280 cm. The ratio of the width to the length is 3 : 4.
What is the length of the rectangle?
7. The lengths of the sides of a triangle are in the extended ratio 3 : 6 : 8. The
triangle's perimeter is 510 cm. What are the lengths of the sides?

Use the proportion $\frac{x}{z} = \frac{6}{5}$. Complete each statement. Justify your answer.

15. $\frac{x}{6} = \frac{\boxed{}}{\boxed{}}$

16. $\frac{x+z}{z} = \frac{\boxed{}}{\boxed{}}$

17. $\frac{z}{x} = \frac{\boxed{}}{\boxed{}}$

18. $5x = \boxed{}$

19. The Measures of two consecutive angles in a parallelogram are in the ratio 4 : 11. What are the measures of the four angles of the parallelogram?

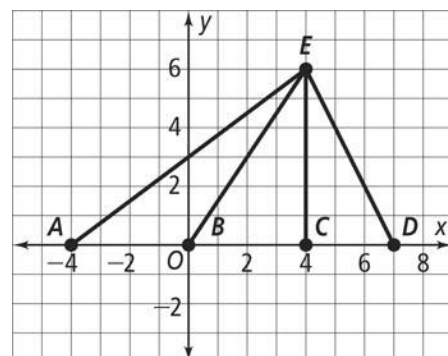
Coordinate Geometry Use the graph. Write each ratio in simplest form.

20. $\frac{AB}{BD}$

21. $\frac{AE}{EC}$

22. $\frac{EC}{BC}$

23. $\frac{\text{slope of } \overline{BE}}{\text{slope of } \overline{AE}}$



24. Draw a triangle that satisfies this condition: The ratio of the interior angles is 7: 11 : 12.

