

Name _____

Date _____

LESSON 6.2

Practice C

For use with pages 364–370

Copy and complete the statement.

1. If $\frac{z}{x} = \frac{y}{c}$, then $\frac{c}{y} = \frac{?}{?}$.

2. If $\frac{3}{4} = \frac{5}{x+2}$, then $\frac{7}{4} = \frac{?}{?}$.

Use one of the properties of proportions to write a proportion with the indicated characteristic that is equivalent to the proportion $\frac{6.2}{x} = \frac{3.8}{y}$.

- Both numerators are the sum of a variable and a decimal.
- The numerators are variables and the denominators are decimals.
- The numerator and denominator of the ratio on the right side of the equation are both variables, and the numerator and denominator of the ratio on the left side of the equation are both decimals.

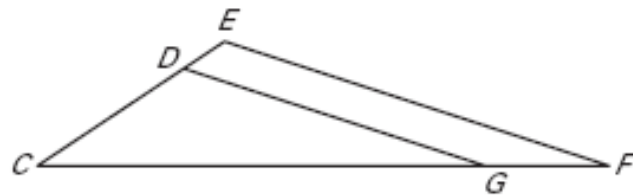
In the diagram, $\frac{DE + CD}{CD} = \frac{GF + CG}{CG}$. State whether the indicated proportion is *true* or *false*.

6. $\frac{DE}{CD} = \frac{GF}{CG}$

7. $\frac{CD}{DE} = \frac{CG}{GF}$

8. $\frac{DE}{CD} = \frac{GF}{CF}$

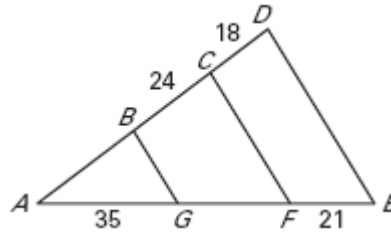
9. $\frac{DE}{CE} = \frac{GF}{CF}$



In the diagram, $\frac{AB}{CD} = \frac{AG}{FE}$ and $\frac{AB}{AC} = \frac{AG}{AF}$. Find the unknown length.

10. Find AB

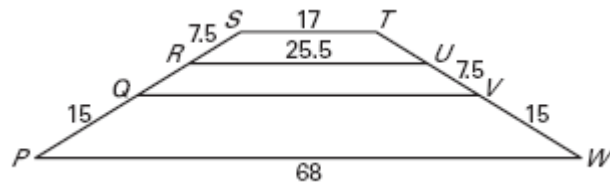
11. Find GF



In the diagram, $\frac{PQ}{QR} = \frac{WU}{VU}$, $\frac{QR}{RS} = \frac{VU}{UT}$ and $\frac{PW}{QV} = \frac{QV}{ST}$. Find the unknown length.

12. Find UT .

13. Find QV .



The length of a feature in a scale model is given along with the corresponding length of the actual object. Find the scale of the model.

14. Length in model: 9.6 centimeters; Actual length: 3.2 centimeters

15. Length in model: 3.4 centimeters; Actual length: 5.1 inches

The scale of a map and the distance between two points on the map is given. Find the actual distance between the locations represented by the points.

16. Scale: 1 inch: 25 miles; Map distance: 3.2 inches

17. Scale: 2 centimeters: 15 miles; Map distance: 8.2 centimeters