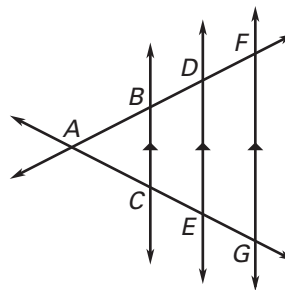


Practice A

For use with pages 498–505

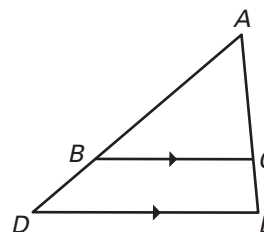
Use the figure to complete the proportions.

- | | |
|-----------------------------------|-----------------------------------|
| 1. $\frac{AB}{AF} = \frac{BC}{?}$ | 2. $\frac{BD}{DF} = \frac{?}{EG}$ |
| 3. $\frac{AD}{BD} = \frac{AE}{?}$ | 4. $\frac{AC}{AG} = \frac{AB}{?}$ |
| 5. $\frac{DE}{FG} = \frac{AD}{?}$ | 6. $\frac{AB}{DF} = \frac{?}{EG}$ |



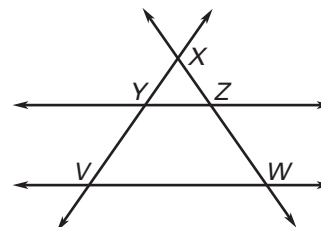
Determine whether the statement is *true* or *false*. Explain your reasoning.

- | | |
|------------------------------------|-------------------------------------|
| 7. $\frac{AB}{BD} = \frac{AC}{CE}$ | 8. $\frac{AC}{CE} = \frac{BC}{DE}$ |
| 9. $\frac{EC}{CA} = \frac{ED}{CB}$ | 10. $\frac{DB}{BA} = \frac{EC}{CA}$ |



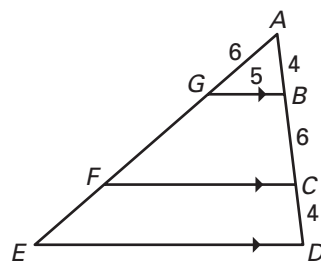
Determine whether the given information implies $\overline{YZ} \parallel \overline{VW}$. If they are parallel, state the reason.

- | | |
|--|-------------------------------------|
| 11. $\frac{XY}{XV} = \frac{XZ}{XW}$ | 12. $\frac{XY}{YV} = \frac{XZ}{ZW}$ |
| 13. $\triangle XYZ \sim \triangle XVW$ | 14. $\angle VYZ \cong \angle WZY$ |



Use the figure to match the segment with its length.

- | | |
|---------------------|---------------------|
| A. 9 | B. $12\frac{1}{2}$ |
| C. 6 | D. $17\frac{1}{2}$ |
| 15. \overline{GF} | 16. \overline{FC} |
| 17. \overline{ED} | 18. \overline{FE} |



Find the value of the variable.

