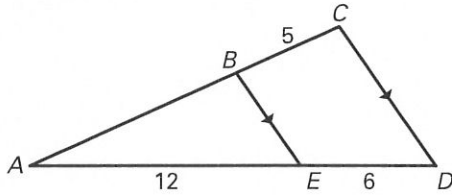


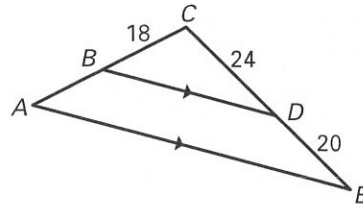
**LESSON 6.5 Practice A**  
For use with the lesson "Use Proportionality Theorems"

Find the length of  $\overline{AB}$ .

1.



2.



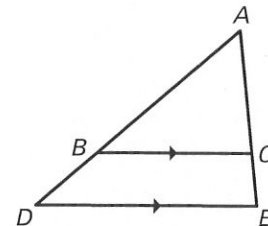
Determine whether the statement is true or false. Explain your reasoning.

3.  $\frac{AB}{BD} = \frac{AC}{CE}$

4.  $\frac{AC}{CE} = \frac{BC}{DE}$

5.  $\frac{EC}{CA} = \frac{ED}{CB}$

6.  $\frac{DB}{BA} = \frac{EC}{CA}$



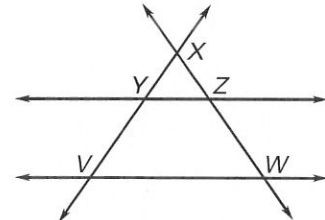
Use the given information to determine whether  $\overline{YZ} \parallel \overline{VW}$ . If so, state the reason.

7.  $\frac{XY}{XV} = \frac{XZ}{XW}$

8.  $\frac{XY}{YV} = \frac{XZ}{ZW}$

9.  $\triangle XYZ \sim \triangle XVW$

10.  $\angle VYZ \cong \angle WZY$



Use the figure to match the segment with its length.

11.  $\overline{GF}$

A. 9

12.  $\overline{FC}$

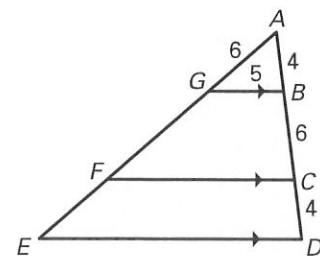
B. 12.5

13.  $\overline{ED}$

C. 6

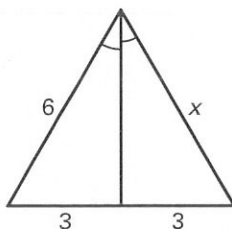
14.  $\overline{FE}$

D. 17.5

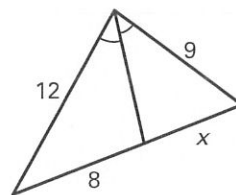


Find the value of  $x$ .

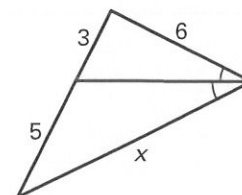
15.



16.



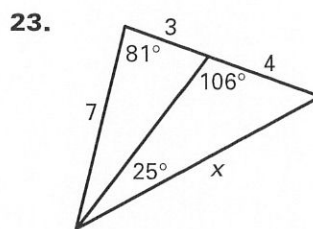
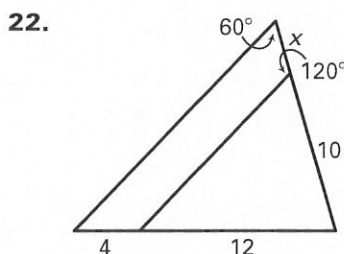
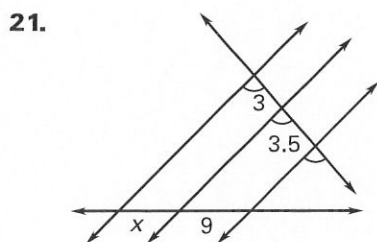
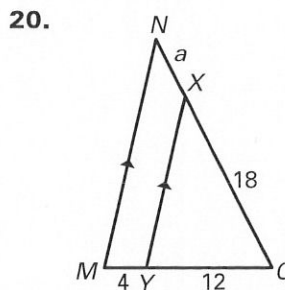
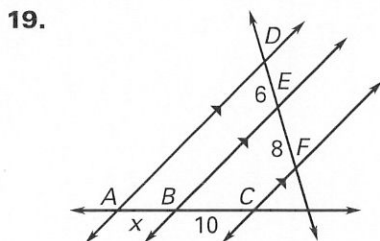
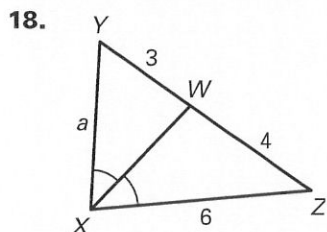
17.



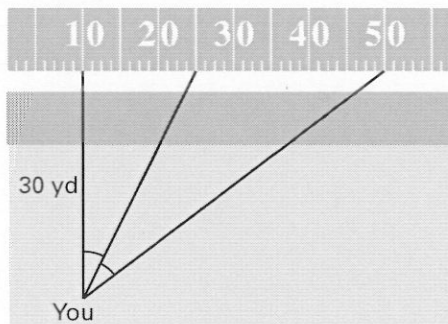
**LESSON 6.5**

**Practice A** *continued*  
For use with the lesson "Use Proportionality Theorems"

Find the value of the variable.



24. **Stadium Seats** Your seat at a football game is directly in front of the 10-yard line, 30 yards from the field. Your position forms congruent angles with the 10-yard line, the 25-yard line, and the 50-yard line as shown in the figure. How far are you from where the 50-yard line intersects the sideline?



25. **House Design** The figure is a diagram of a cross section of the attic of a house. A vent pipe comes through the floor 6 feet from the edge of the house. What is the distance  $x$  on the roof, from the edge of the roof to the vent pipe?

