

7-5 Practice

Form K

Proportions in Triangles

Use the figure at the right to complete each proportion.

1. $\frac{CD}{\square} = \frac{AC}{AI}$

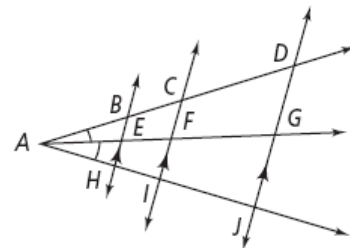
2. $\frac{AB}{BC} = \frac{\square}{HI}$

3. $\frac{\square}{IJ} = \frac{BC}{HI}$

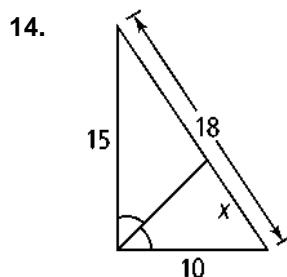
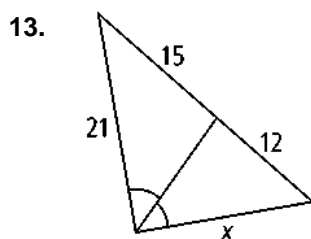
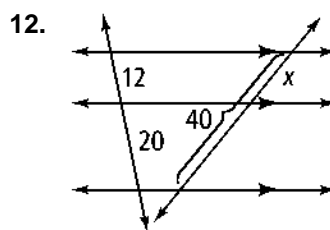
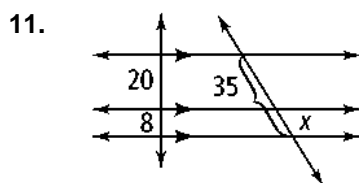
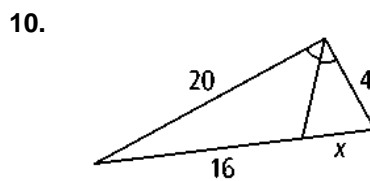
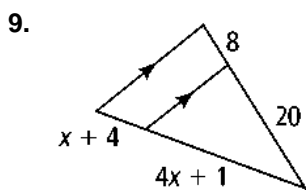
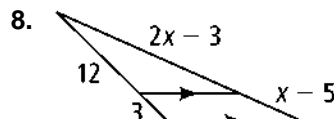
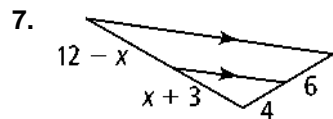
4. $\frac{JG}{\square} = \frac{GD}{AD}$

5. $\frac{FG}{EF} = \frac{CD}{\square}$

6. $\frac{AC}{AI} = \frac{\square}{IJ}$



Algebra Solve for x .

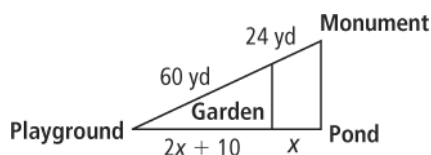


7-5 Practice (continued)

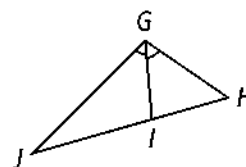
Proportions in Triangles

Form K

15. The map at the right shows the walking paths at a local park. The garden walkway is parallel to the walkway between the monument and the pond. How long is the path from the pond to the playground?



16. **Error Analysis** A classmate says you can use the Triangle-Angle-Bisector Theorem to find the length of GI . Explain what is wrong with your classmate's statement.



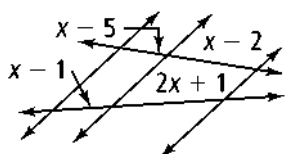
17. Triangle QRS has line XY parallel to side RS . The length of QY is 12 in. The length of QX is 8 in.
- Draw a picture to represent the problem.
 - If the length of XR is 5 in., what is the length of QS ?

18. The business district of a town is shown on the map below. Maple Avenue, Oak Avenue, and Elm Street are parallel. How long is the section of First Street from Elm Street to Maple Avenue?

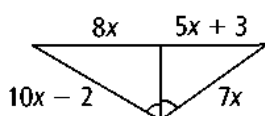


Algebra Solve for x .

19.



20.



21.

