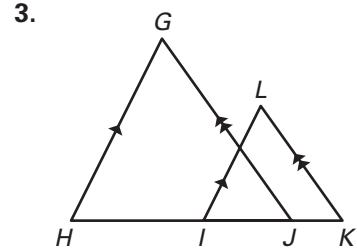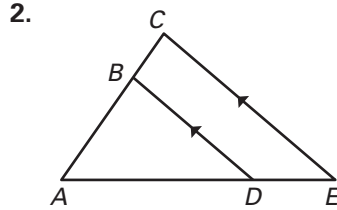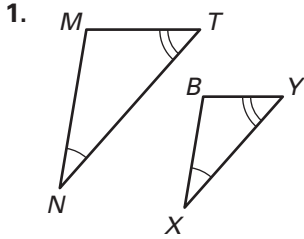NAME _____ DATE _____

Practice B

For use with pages 480–487

The triangles shown are similar. List all the pairs of congruent angles and write the statement of proportionality.

1.

2.

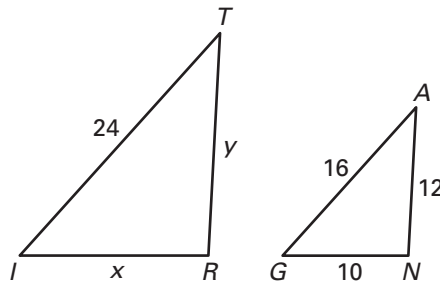**3.**

Use the diagram to complete the following.

4. $\triangle TIR \sim \triangle \underline{\ ?\ }$

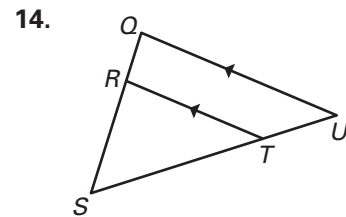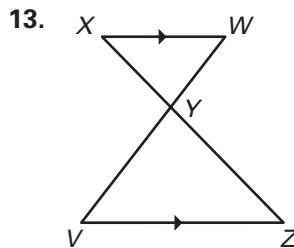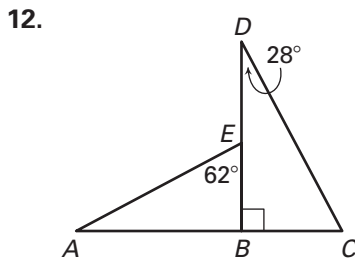**5.** $\dfrac{TI}{?} = \dfrac{IR}{?} = \dfrac{RT}{?}$
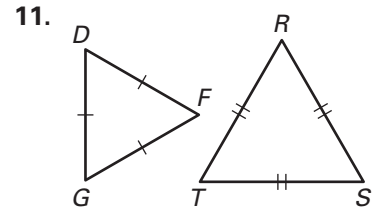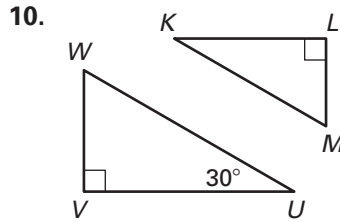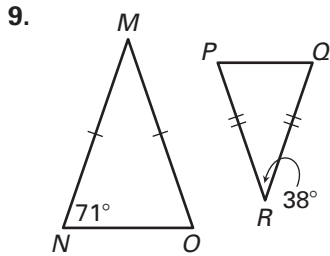
6. $\dfrac{24}{?} = \dfrac{?}{10}$

7. $\dfrac{?}{24} = \dfrac{12}{?}$

8. Solve for x and y.

Determine whether the triangles can be proved similar. If they are similar, write a similarity statement. If they are not similar, explain why.

9.

10.

11.

12.

13.

14.

Write a paragraph or a two-column proof.

15. Given: $\overline{DE}$ is a midsegment of $\triangle ABC$.
   Prove: $\triangle ABC \sim \triangle DBE$