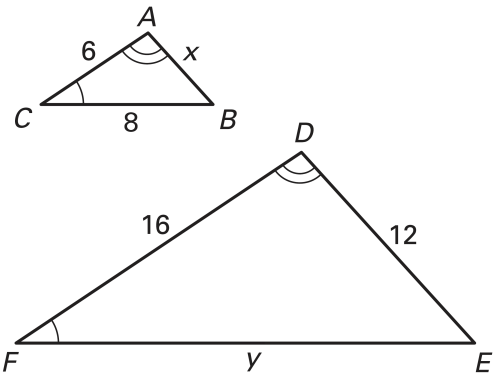
Name _____ **Date** _____

LESSON 6.4

Practice B

For use with pages 381—387

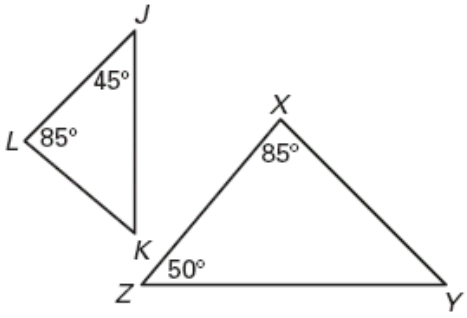
Use the diagram to complete the statement.



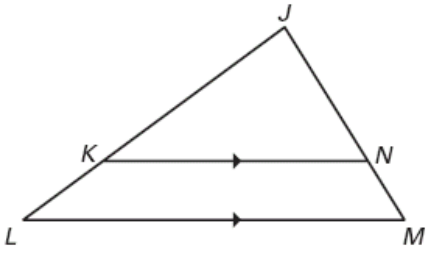
1. $\Delta ABC \sim$ ____
2. $\frac{AB}{\quad} = \frac{\quad}{EF} = \frac{CA}{\quad}$
3. $\angle B \cong$ ____
4. $\frac{\quad}{12} = \frac{8}{\quad}$
5. $x =$ ____
6. $y =$ ____

Determine whether the triangles are similar. If they are, write a similarity statement.

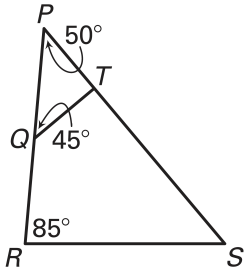
7.



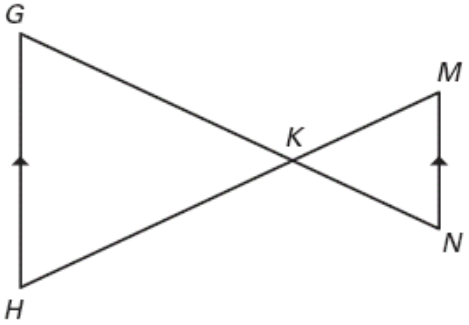
8.



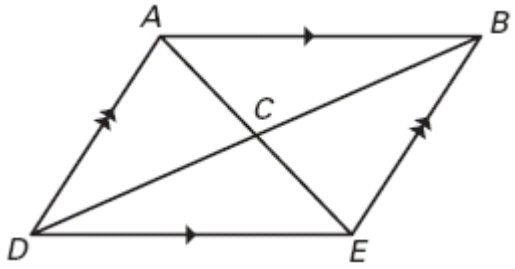
9.



10.



In Exercises 11-14, use the diagram at the right.



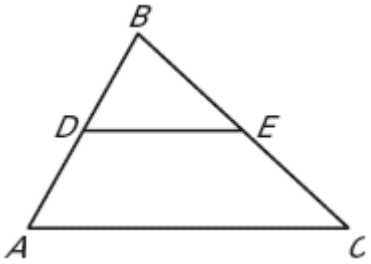
11. List three pairs of congruent angles.

12. Name two pairs of similar triangles and write a similarity statement for each.

13. Is $\Delta ACD \sim \Delta BCE$?

14. Is $\Delta AED \cong \Delta EAB$?

15. **GIVEN:** $\overline{DE}$ is a midsegment of ΔABC.
PROVE: $\Delta ABC \sim \Delta DBE$



Statement	Reason

16. The A-frame building shown in the figure has a balcony that is 16 feet long, 16 feet high, and parallel to the ground. The building is 28 feet wide at its base. How tall is the A-frame building?