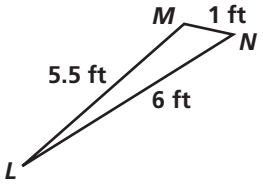
Name _____ Class _____ Date _____

Practice 5-5

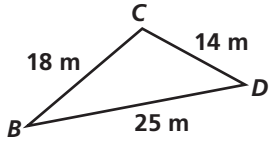
Inequalities in Triangles

Determine the two largest angles in each triangle.

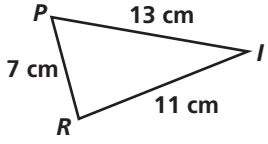
1. _____



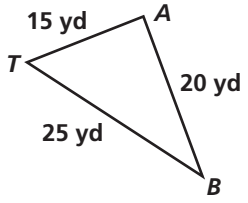
2. _____



3. _____



4. _____



Can a triangle have sides with the given lengths? Explain.

5. 4 m, 7 m, and 8 m _____

6. 6 m, 10 m, and 17 m _____

7. 4 in., 4 in., and 4 in. _____

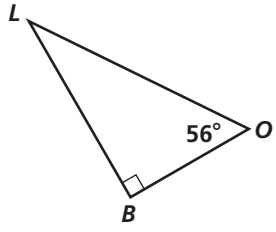
8. 11 m, 12 m, and 13 m _____

9. 18 ft, 20 ft, and 40 ft _____

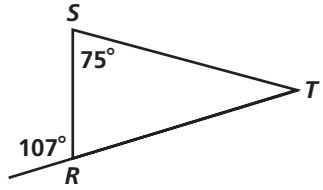
10. 1.2 cm, 2.6 cm, and 4.9 cm _____

List the sides of each triangle in order from shortest to longest.

11. _____

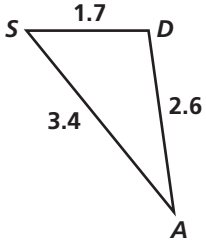


12. _____

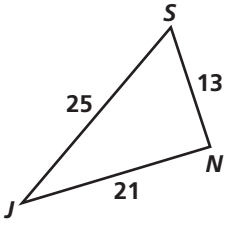


List the angles of each triangle in order from largest to smallest.

13. _____



14. _____



The lengths of two sides of a triangle are given. Describe the lengths possible for the third side.

15. 4 in., 7 in. _____

16. 9 cm, 17 cm _____

17. 5 ft, 5 ft _____

18. 11 m, 20 m _____