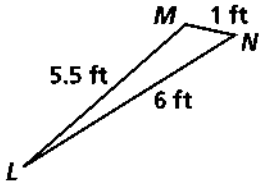
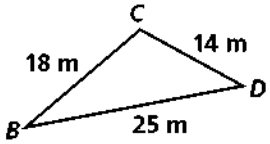
Name _____ Class _____ Date _____

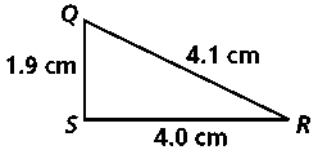
Practice 5-5

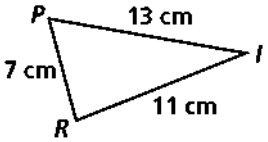
Inequalities in Triangles

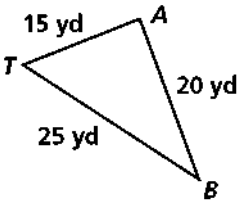
Determine the two largest angles in each triangle.

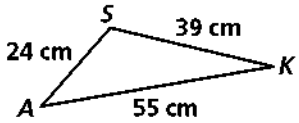
1. 

2. 

3. 

4. 

5. 

6. 

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

7. 4 m, 7 m, and 8 m

8. 6 m, 10 m, and 17 m

9. 4 in., 4 in., and 4 in.

10. 1 yd, 9 yd, and 9 yd

11. 11 m, 12 m, and 13 m

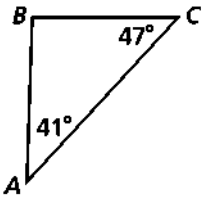
12. 18 ft, 20 ft, and 40 ft

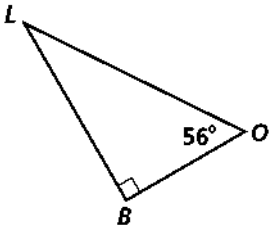
13. 1.2 cm, 2.6 cm, and 4.9 cm

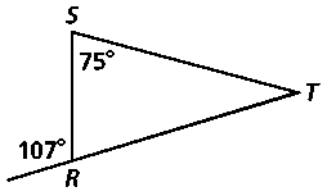
14. $8\frac{1}{2}$ yd, $9\frac{1}{4}$ yd, and 18 yd

15. 2.5 m, 3.5 m, and 6 m

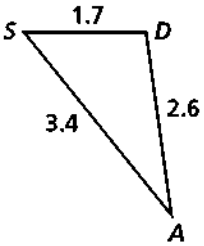
List the sides of each triangle in order from shortest to longest.

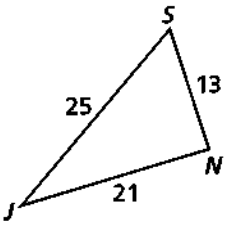
16. 

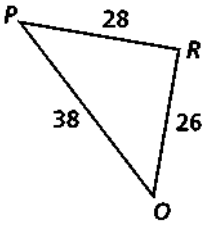
17. 

18. 

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

19. 

20. 

21. 

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

22. 4 in., 7 in.

23. 9 cm, 17 cm

24. 5 ft, 5 ft

25. 11 m, 20 m

26. 6 km, 8 km

27. 24 in., 37 in.

© Pearson Education, Inc., publishing as Pearson Prentice Hall. All rights reserved.