Practice 4-6
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Mixed Exercises

Determine the two largest angles in each triangle.

1.

2.

3.

4.

5.

6.
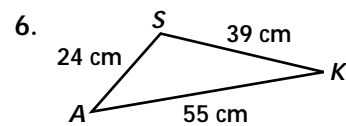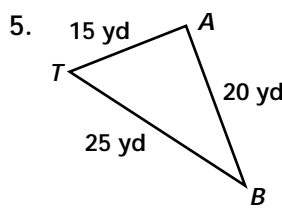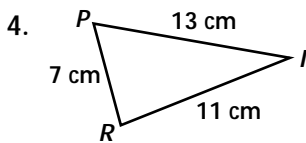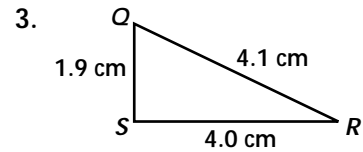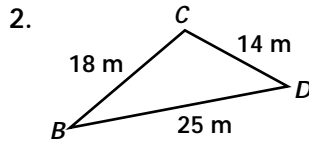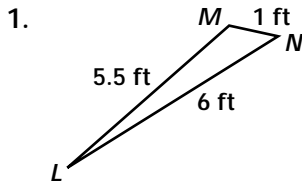
Is it possible for a triangle to have sides with the given lengths? Explain.

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. 11m, 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.
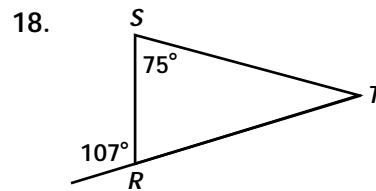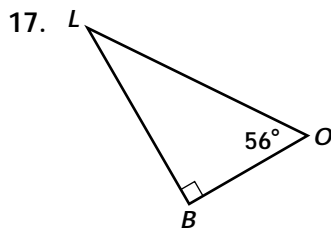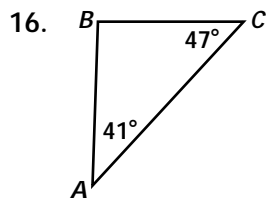
19. △*LAM*, where *m*∠*L* = 46, *m*∠*A* = 90, and *m*∠*M* = 44.

20. △*DIN*, where *m*∠*D* = 55, *m*∠*I* = 20, and *m*∠*N* = 105.

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

21.

22.

23.
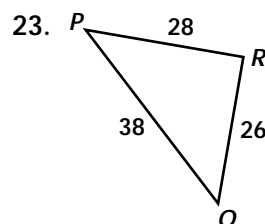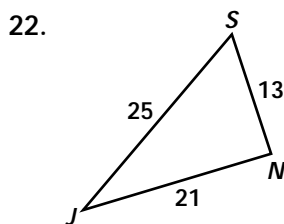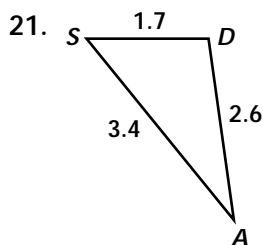
24. △*GHI*, where *GH* = 21, *HI* = 6, and *GI* = 26.

25. △*DFH*, where *DF* = 6, *FH* = 7, and *DH* = 8.

26. △*TUV*, where *TU* = 4, *UV* = 6, and *TV* = 8.

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