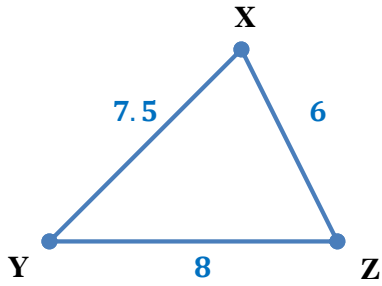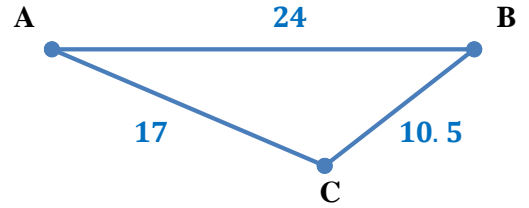# INEQUALITIES IN ONE TRIANGLE Bell Work

Write the angles in order from smallest to largest.
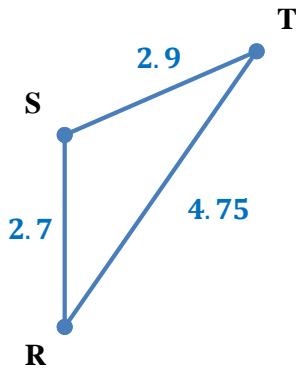
1.

X

7.5   6

Y   8   Z

2.

A   24   B

17   10.5

C

3.

T

2.9

S

2.7   4.75

R

4.

D

1

2   3   4

E   F   G

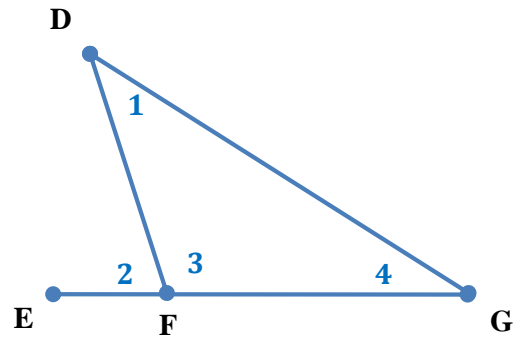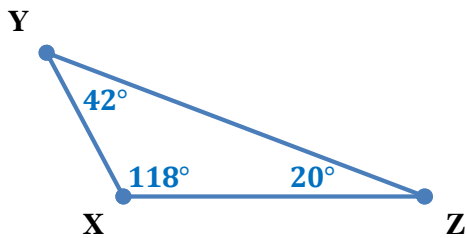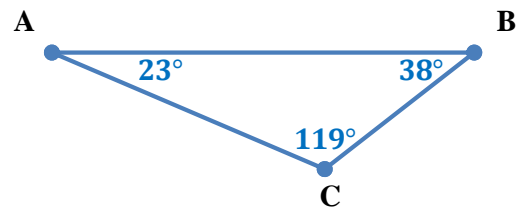**Write the sides in order from shortest to longest.**

5.
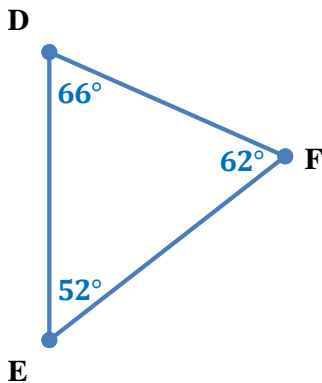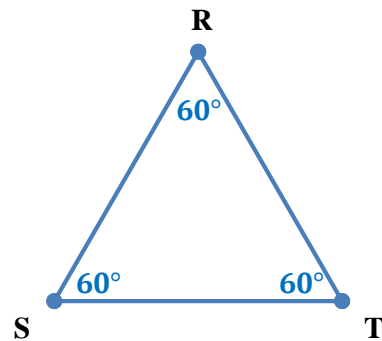
Y

42°

118°   20°

X   Z

6.

A   23°   38°   B

119°

C

7.

D

66°

62° F

52°

E

8.

R

60°

60°   60°

S   T

GeometryCoach.com

INEQUALITIES IN ONE TRIANGLE Bell Work

Determine whether a triangle can have sides with the given lengths.

9. **28**, **34**, **39**   **10.** 6, 7, 11

11. **35**, **120**, **125**   **12.** 3, 6, 9

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

13. **28 in**, **38 in**   14. **3 ft**, **5 ft**

15. **9.2 cm**, **3.8 cm**