#### Class\_

# Practice 4-6

## Example Exercises

### Example 1

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

- **1**. 3 cm, 4 cm, and 7 cm
- 4. 11 yd, 12 yd, and 23 yd
- 7. 8 m, 15 m, and 27 m
- **10**. 1.5 ft, 2 ft, and 3.75 ft
- 8 ft, 8 ft, and 8 ft
  1 cm, 2 cm, and 3 cm
  5.9 yd, 6 yd, and 11 yd

9 cm

0

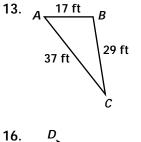
14.

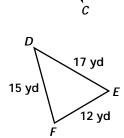
**2**. 1 in., 2 in., and 2 in.

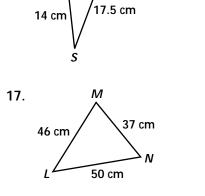
- **3**. 7 m, 9 m, and 17 m
- **6**. 3 cm, 5 cm, and 7 cm
- **9**. 13 m, 14 m, and 29 m
- **12.**  $1\frac{1}{2}$  cm, 5 cm, and  $6\frac{3}{4}$  cm

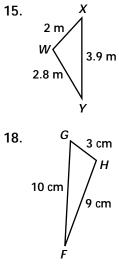
## Example 2

## Determine the two largest angles in each triangle.



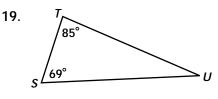


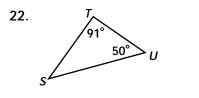




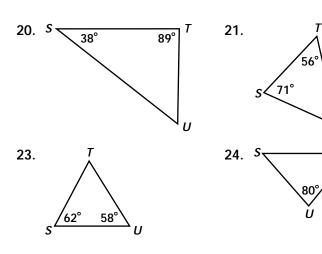
## Example 3

#### In $\triangle$ *STU*, which side is shortest?





**Triangle Inequalities** 





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