INEQUALITIES IN ONE TRIANGLE  Bell Work

Write the angles in order from smallest to largest.

1. \( \angle X, \angle Y, \angle Z \)

2. \( \angle A, \angle B, \angle C \)

3. \( \angle S, \angle T, \angle R \)

4. \( \angle D, \angle E, \angle F \)

Write the sides in order from shortest to longest.

5. \( \overline{YZ}, \overline{XY}, \overline{XZ} \)

6. \( \overline{EF}, \overline{FG}, \overline{EG} \)

7. \( \overline{DE}, \overline{EF}, \overline{DF} \)

8. \( \overline{RS}, \overline{ST}, \overline{RT} \)
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