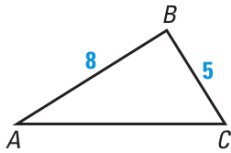


Name _____

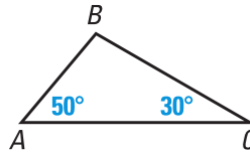
Date _____

Given the triangle: Write an inequality for the angles or sides provided. Then write an inequality for any relationships you can infer.

1.

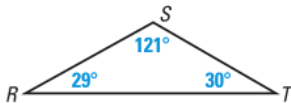


2.

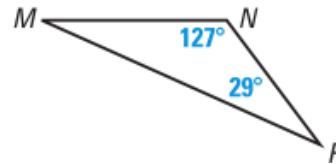


List the sides of the triangle in order from least to greatest.

3.



4.



5.

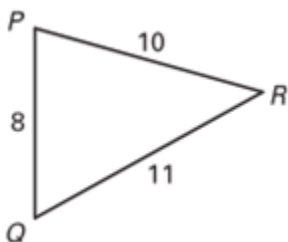
$$\begin{aligned} m\angle A &= 10x, m\angle B = 5x - 17, \\ m\angle C &= 7x - 1 \end{aligned}$$

6.

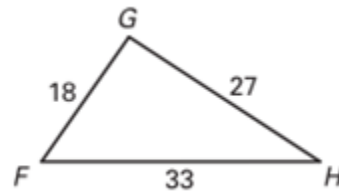
$$\begin{aligned} m\angle A &= 5x + 2, m\angle B = 6x - 10, \\ m\angle C &= x + 20 \end{aligned}$$

List the angles of the triangle from greatest to least.

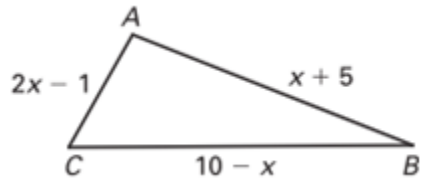
7.



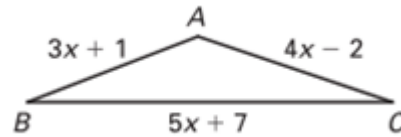
8.



9. Perimeter of the triangle is 20.

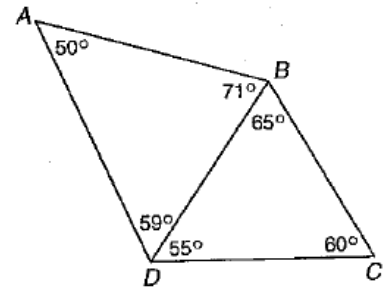


10. Perimeter of the triangle is 54.



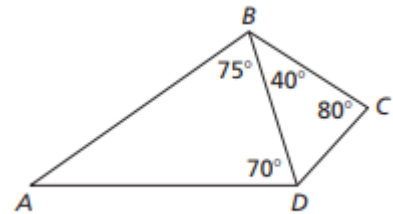
11. Name the shortest segment in the figure.

Name all segments longer than BD.



12. Name the longest and shortest segments in the figure.

Name all segments shorter than BD.



13. List the sides in order from longest to shortest.

List the angles in order from smallest to largest.

