

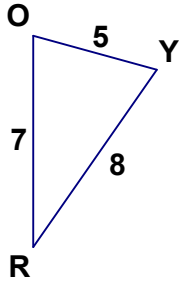
Name _____
Mr. Schlansky

Date _____
Geometry

Corresponding Sides and Angles



1. What is the largest angle of $\triangle ROY$? What is the smallest angle of $\triangle ROY$?



2. In triangle SPY, $m\angle S = 35^\circ$ and $m\angle Y = 70^\circ$. What is the largest side of the triangle? What is the shortest side of the triangle?

3. In $\triangle ABC$, $m\angle A = 45^\circ$ and $m\angle B = 80^\circ$. What is the largest side of $\triangle ABC$? What is the smallest side of $\triangle ABC$?

4. In $\triangle CAT$, $m\angle C = 78^\circ$, and $m\angle A = 41^\circ$. Which side is the shortest? Which side is the longest?

5. In triangle TYL, $m\angle T = 71^\circ$ and $m\angle Y = 42^\circ$. What is the smallest side of the triangle? What is the largest side of the triangle?

6. In triangle LYS, $m\angle L = 48^\circ$ and $m\angle Y = 101^\circ$. What is the smallest side of the triangle? What is the largest side of the triangle?

7. In $\triangle ABC$, $m\angle A = 60$, $m\angle B = 80$, and $m\angle C = 40$. Which inequality is true?

- 1) $AB > BC$
- 2) $AC > BC$
- 3) $AC < BA$
- 4) $BC < BA$

8. In the diagram of quadrilateral NAVY below, $m\angle YNA = 30^\circ$, $m\angle YAN = 38^\circ$, $m\angle AVY = 94^\circ$, and $m\angle VAY = 46^\circ$.

Which segment has the shortest length?

- | | |
|--------------------|--------------------|
| 1) \overline{AY} | 3) \overline{VA} |
| 2) \overline{NY} | 4) \overline{VY} |

