

Quiz: Triangle Inequalities

1 In triangle HIJ, an exterior angle at H measures 130° , and $m\angle I=60^\circ$. Which is the longest side of the triangle?

2 In triangle KLM, $m\angle L=95^\circ$, and $m\angle L > m\angle M$. Which is the longest side of the triangle?

3 In triangle MNO, an exterior angle at N measures 95° , and $m\angle O=55^\circ$. Which is the longest side of the triangle?

4 In triangle PQR, $m\angle Q=125^\circ$ and $m\angle P=20^\circ$. Which is the longest side of the triangle?

5 In triangle STU, $m\angle S=45^\circ$ and $m\angle T=35^\circ$. Which is the longest side of the triangle?

6 In triangle XYZ, an exterior angle at Y measures 115° , and $m\angle E=45^\circ$. Which is the longest side of the triangle?

7 In triangle UVW, $m\angle U=55^\circ$ and $m\angle V=100^\circ$. Which is the longest side of the triangle?

8 In triangle ABC, $m\angle A=105^\circ$, and $m\angle A > m\angle B$. Which is the longest side of the triangle?

9 In triangle CDE, an exterior angle at C measures 120° , and $m\angle D=20^\circ$. Which is the longest side of the triangle?

10 In triangle FGH, $m\angle F=90^\circ$ and $m\angle G=40^\circ$. Which is the longest side of the triangle?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%