

Quiz: Triangle Inequality Theorems

1. Lengths 4, 3, 8 could represent the measures of the sides of a triangle?
2. In triangle ABC,  $\angle A = 54^\circ$  and  $\angle A > \angle B$ . Which is the smallest side of the triangle?
3. Two sides of an isosceles triangle measure 4 and 11. What is the possible value of third side?
4. In triangle DEF, an exterior angle at D measures  $114^\circ$ , and  $\angle E = 64^\circ$ . Which is the longest side of the triangle?
5. Lengths 5, 5, 7 could represent the measures of the sides of a triangle?
6. In triangle ABC,  $\angle A = 58^\circ$  and  $\angle B = 70^\circ$ . Which is the longest side of the triangle?
7. In triangle ABC,  $\angle C = 90^\circ$  and  $\angle C > \angle B > \angle A$ . Which is the longest side of the triangle?
8. In  $\triangle ABC$ ,  $AB = 7$ ,  $BC = 4$ ,  $AC = 6$ ; then which is the largest angle?
9. In triangle PQR, an exterior angle at P measures  $88^\circ$ , and  $\angle Q = 42^\circ$ . Which is the longest side of the triangle?
10. Two sides of an isosceles triangle measure 5 and 13. What is the possible value of third side?

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%