



Triangle Inequality - Range

Name _____

Score _____

TI:07

Let x be the third side of a triangle. Find the range of x from the given other two side lengths of a triangle.

1) 11 yd, 15 yd

2) 2 in, 5 in

3) 16 in, 9 in

4) 8 ft, 1 ft

5) 4 ft, 12 ft

6) 15 yd, 19 yd

Let x be the third side of a triangle. Find the range of x , the least and greatest possible measure of the third side from the other two side lengths of a triangle.

1) 6 in, 10 in

Range : _____

Least : _____

Greatest : _____

2) 13 ft, 25 ft

Range : _____

Least : _____

Greatest : _____



Triangle Inequality - Range

Name _____

Score _____

Answer key

TI:07

Let x be the third side of a triangle. Find the range of x from the given other two side lengths of a triangle.

1) 11 yd, 15 yd

$4 \text{ yd} < x < 26 \text{ yd}$

2) 2 in, 5 in

$3 \text{ in} < x < 7 \text{ in}$

3) 16 in, 9 in

$7 \text{ in} < x < 25 \text{ in}$

4) 8 ft, 1 ft

$7 \text{ ft} < x < 9 \text{ ft}$

5) 4 ft, 12 ft

$8 \text{ ft} < x < 16 \text{ ft}$

6) 15 yd, 19 yd

$4 \text{ yd} < x < 34 \text{ yd}$

Let x be the third side of a triangle. Find the range of x , the least and greatest possible measure of the third side from the other two side lengths of a triangle.

1) 6 in, 10 in

Range: $4 \text{ in} < x < 16 \text{ in}$

Least: 4 in

Greatest: 16 in

2) 13 ft, 25 ft

Range: $12 \text{ ft} < x < 38 \text{ ft}$

Least: 12 ft

Greatest: 38 ft