



Triangle Inequality - Range

Name _____

Score _____

TI:08

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) 14 ft, 8 ft

2) 10 yd, 30 yd

3) 3 yd, 6 yd

4) 17 in, 11 in

5) 15 in, 18 in

6) 9 ft, 7 ft

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) 21 yd, 27 yd

Range : _____

Least : _____

Greatest : _____

2) 10 in, 3 in

Range : _____

Least : _____

Greatest : _____



Triangle Inequality - Range

Name _____

Score _____

Answer key

TI:08

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) 14 ft, 8 ft

$6 \text{ ft} < x < 22 \text{ ft}$

2) 10 yd, 30 yd

$20 \text{ yd} < x < 40 \text{ yd}$

3) 3 yd, 6 yd

$3 \text{ yd} < x < 9 \text{ yd}$

4) 17 in, 11 in

$6 \text{ in} < x < 28 \text{ in}$

5) 15 in, 18 in

$3 \text{ in} < x < 33 \text{ in}$

6) 9 ft, 7 ft

$2 \text{ ft} < x < 16 \text{ ft}$

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) 21 yd, 27 yd

Range: $6 \text{ yd} < x < 48 \text{ yd}$

Least: 6 yd

Greatest: 48 yd

2) 10 in, 3 in

Range: $7 \text{ in} < x < 13 \text{ in}$

Least: 7 in

Greatest: 13 in