



Triangle Inequality - Range

Name _____

Score _____

TI:09

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) 17 in, 20 in

2) 5 ft, 9 ft

3) 24 ft, 12 ft

4) 35 yd, 8 yd

5) 14 yd, 28 yd

6) 15 in, 4 in

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) 7 ft, 3 ft

Range : _____

Least : _____

Greatest : _____

2) 6 yd, 18 yd

Range : _____

Least : _____

Greatest : _____



Triangle Inequality - Range

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Score _____

Answer key

TI:09

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) 17 in, 20 in

$3 \text{ in} < x < 37 \text{ in}$

2) 5 ft, 9 ft

$4 \text{ ft} < x < 14 \text{ ft}$

3) 24 ft, 12 ft

$12 \text{ ft} < x < 36 \text{ ft}$

4) 35 yd, 8 yd

$27 \text{ yd} < x < 43 \text{ yd}$

5) 14 yd, 28 yd

$14 \text{ yd} < x < 42 \text{ yd}$

6) 15 in, 4 in

$11 \text{ in} < x < 19 \text{ in}$

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) 7 ft, 3 ft

Range: $4 \text{ ft} < x < 10 \text{ ft}$

Least: 4 ft

Greatest: 10 ft

2) 6 yd, 18 yd

Range: $12 \text{ yd} < x < 24 \text{ yd}$

Least: 12 yd

Greatest: 24 yd