Triangle Inequality - Range

Name _____

Score _____

TI:10

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

Q.No	Side 1	Side 2	Range of the third side (x)
1)	6 cm	13 cm	
2)	29 mm	17 mm	
3)	2 m	8 m	
4)	10 mm	20 mm	
5)	14 cm	31 cm	
6)	16 m	7 m	
7)	12 mm	15 mm	

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 given other two side lengths of a triangle.

1) 11 m, 22 m

Range :

Least :

Greatest :

2) 9 cm, 4 cm

Range :

Least :

Greatest :

Triangle Inequality - Range

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Score _____

Answer key

TI:10

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

Q.No	Side 1	Side 2	Range of the third side (x)
1)	6 cm	13 cm	**7 cm < x < 19 cm**
2)	29 mm	17 mm	**12 mm < x < 46 mm**
3)	2 m	8 m	**6 m < x < 10 m**
4)	10 mm	20 mm	**10 mm < x < 30 mm**
5)	14 cm	31 cm	**17 cm < x < 45 cm**
6)	16 m	7 m	**9 m < x < 23 m**
7)	12 mm	15 mm	**3 mm < x < 27 mm**

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 given other two side lengths of a triangle.

1) 11 m, 22 m

Range : **11 m < x < 33 m**

Least : **11 m**

Greatest : **33 m**

2) 9 cm, 4 cm

Range : **5 cm < x < 13 cm**

Least : **5 cm**

Greatest : **13 cm**