

## **Triangle Inequality - Range**

Name <sub>.</sub>		
Score		

TI:12

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 m	15 m	
2)	27 cm	11 cm	
3)	5 mm	10 mm	
4)	2 cm	6 cm	
5)	13 m	18 m	
6)	11 mm	20 mm	
7)	12 cm	13 cm	

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) 18 mm, 12 n	nm	2)	1 m, 4 m	
Range:			Range :	
Least :			Least:	
Greatest :			Greatest :	



## **Triangle Inequality - Range**

Name	
Score	

## **Answer key**

TI:12

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 m	15 m	9 m < x < 21 m
2)	27 cm	11 cm	16 cm < x < 38 cm
3)	5 mm	10 mm	5 mm < x < 15 mm
4)	2 cm	6 cm	4 cm < x < 8 cm
5)	13 m	18 m	5 m < x < 31 mm
6)	11 mm	20 mm	9 mm < x < 31 mm
7)	12 cm	13 cm	1 cm < x < 25 cm

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.

2)

1 m, 4 m

1) 18 mm, 12 r	18 mm, 12 mm		
Range :	6 mm < x < 30 mm		
Least:	6 mm		
Greatest :	30 mm		

Range :	3 m < x < 5 m
Least :	3 m
Greatest :	5 m