

Triangle Inequality - Range

Name	
Score	

TI:11

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)	15 mm	7 mm	
2)	4 m	9 m	
3)	21 cm	23 cm	
4)	19 m	12 m	
5)	5 mm	11 mm	
6)	16 cm	8 cm	
7)	26 m	10 m	

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)	6 cm, 10 cm		
	Range :		
	Least:		
	Greatest :		

2)	17 mm, 24 m	nm
	Range :	

Least:	
Greatest :	



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Answer key

TI:11

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)	15 mm	7 mm	8 mm < x < 22 mm
2)	4 m	9 m	5 m < x < 13 mm
3)	21 cm	23 cm	2 cm < x < 44 cm
4)	19 m	12 m	7 m < x < 31 m
5)	5 mm	11 mm	6 mm < x < 16 mm
6)	16 cm	8 cm	8 cm < x < 24 cm
7)	26 m	10 m	16 m < x < 36 m

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)

	6 cm, 10 cm	1)
4 cm < x < 16 cm	Range:	
4 cm	Least :	
16 cm	Greatest :	

Range:	7 mm < x < 41 mm
Least :	7 mm
Greatest :	41 mm

17 mm, 24 mm