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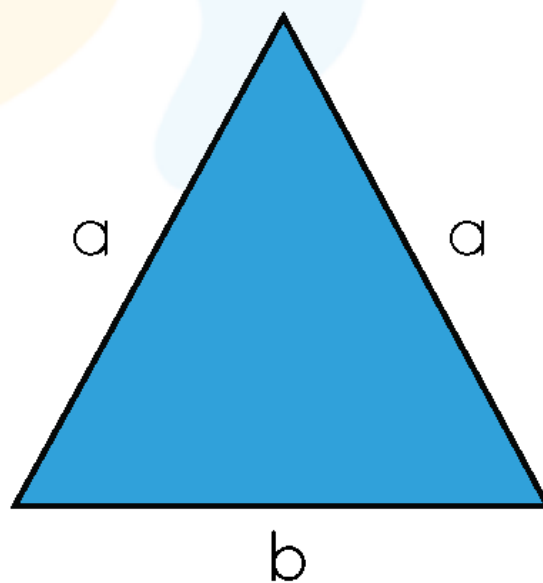
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## Triangle Inequality Theorem Worksheets

Check if the given three lengths can be measure of the sides of the triangle.

- 1) 3in, 4in, 6in
- 2) 12 ft, 13ft, 26ft
- 3) 16 yd, 15yd, 6yd
- 4) 2in, 4in, 1in
- 5) 22ft, 29ft, 30 ft
- 6) Alison was walking around an isosceles triangular park. She measured the length of the sides of the parks. Which of the following is the correct possible measure of the sides of the park?  
a) 12 yd, 12 yd, 25 yd   b) 30 yd, 40 yd, 50 yd   c) 30 yd, 30 yd, 40 yd.



If the measure of the length of the two sides of the triangle are given, find the possible range of the length of the third side(x) of the triangle.



- 7) 12 ft, 13 ft
- 8) 9 in, 17 in
- 9) 45 ft, 22ft
- 10) 33 in, 11 in

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in an interesting way,  
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"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

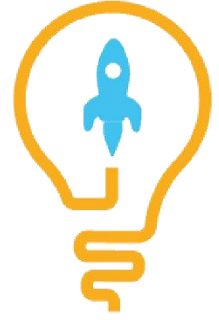
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1)	Possible
2)	Not possible
3)	Possible
4)	Not possible
5)	Possible
6)	c
7)	$1 < x < 25$
8)	$8 < x < 26$
9)	$23 < x < 67$
10)	$22 < x < 44$