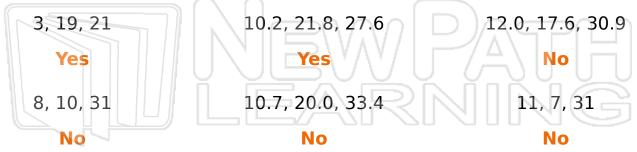# Triangle Inequality Theorem

Math

Name _____ Class _____ Date _____

State if each set of three numbers can be the lengths
of the sides of a triangle.
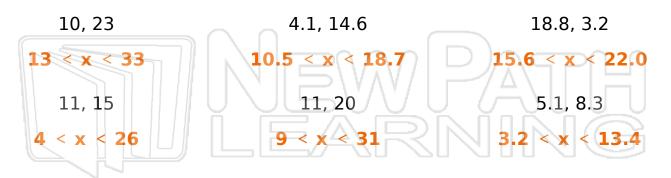
3, 19, 21   10.2, 21.8, 27.6   12.0, 17.6, 30.9

8, 10, 31   10.7, 20.0, 33.4   11, 7, 31

10, 23   4.1, 14.6   18.8, 3.2

11, 15   11, 20   5.1, 8.3

Name _____ Class _____ Date _____

State if each set of three numbers can be the lengths of the sides of a triangle.

3, 19, 21	10.2, 21.8, 27.6	12.0, 17.6, 30.9
Yes	**Yes**	**No**
8, 10, 31	10.7, 20.0, 33.4	11, 7, 31
No	**No**	**No**

PREVIEW

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17.5 < x < 32.3	**7.0 < x < 38.0**	**7 < x < 27**
10, 23	4.1, 14.6	18.8, 3.2
13 < x < 33	**10.5 < x < 18.7**	**15.6 < x < 22.0**
11, 15	11, 20	5.1, 8.3
4 < x < 26	**9 < x < 31**	**3.2 < x < 13.4**