Triangle Inequality Theorem

Math

Name _____ Class _____ Date _____

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

10.5, 13.2, 20.2	5, 3, 6	13.5, 18.6, 30.4
7, 18, 40	15, 14, 23	12.4, 10.7, 18.2

10.5, 12.0	17, 18	10.0, 9.7
11, 24	13.5, 8.4	4, 5

Name _____ Class _____ Date _____

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of the sides of a triangle.

10.5, 13.2, 20.2	5, 3, 6	13.5, 18.6, 30.4
Yes	**Yes**	**Yes**
7, 18, 40	15, 14, 23	12.4, 10.7, 18.2
No	**Yes**	**Yes**

$3 < x < 39$	$8 < x < 30$	$5.8 < x < 44.0$
10.5, 12.0	17, 18	10.0, 9.7
$1.5 < x < 22.5$	$1 < x < 35$	$0.3 < x < 19.7$
11, 24	13.5, 8.4	4, 5
$13 < x < 35$	$5.1 < x < 21.9$	$1 < x < 9$