Triangle Inequality

State whether each set of numbers can be the side lengths of the triangle.
Circle 'Yes' or 'No'.

1)   3 yd, 4 yd, 5 yd   2)   8 in, 11 in, 2 in

        Yes   No   Yes   No

3)   10 ft, 19 ft, 6 ft   4)   21 in, 12 in, 15 in

        Yes   No   Yes   No

Write whether each set of side lengths forms the triangle or not.

1)   6 ft, 10 ft, 9 ft   2)   25 yd, 7 yd, 24 yd

_____   _____

3)   26 in, 13 in, 11 in   4)   15 ft, 3 ft, 5 ft

_____   _____

5)   1 yd, 9 yd, 4 yd   6)   18 in, 20 in, 22 in

_____   _____

Triangle Inequality

Name _____

Score _____

TI:01

Answer key

State whether each set of numbers can be the side lengths of the triangle.
Circle 'Yes' or 'No'.

1)   3 yd, 4 yd, 5 yd

(Yes)   No

2)   8 in, 11 in, 2 in

Yes   (No)

3)   10 ft, 19 ft, 6 ft

Yes   (No)

4)   21 in, 12 in, 15 in

(Yes)   No

Write whether each set of side lengths forms the triangle or not.

1)   6 ft, 10 ft, 9 ft

The sides form a triangle.

2)   25 yd, 7 yd, 24 yd

The sides form a triangle.

3)   26 in, 13 in, 11 in

The sides not form a triangle.

4)   15 ft, 3 ft, 5 ft

The sides not form a triangle.

5)   1 yd, 9 yd, 4 yd

The sides not form a triangle.

6)   18 in, 20 in, 22 in

The sides form a triangle.