



Triangle Inequality

Name _____

Score _____

TI:02

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

1) 25 in, 19 in, 18 in

Yes No

2) 12 yd, 5 yd, 13 yd

Yes No

3) 7 yd, 2 yd, 17 yd

Yes No

4) 15 ft, 27 ft, 10 ft

Yes No

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

1) 36 in, 29 in, 31 in

2) 3 ft, 21 ft, 30 ft

3) 13 yd, 9 yd, 16 yd

4) 4 in, 2 in, 8 in

5) 8 ft, 16 ft, 21 ft

6) 11 yd, 20 yd, 5 yd



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Answer key

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Yes

No

2) 12 yd, 5 yd, 13 yd

Yes

No

3) 7 yd, 2 yd, 17 yd

Yes

No

4) 15 ft, 27 ft, 10 ft

Yes

No

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

1) 36 in, 29 in, 31 in

The sides form a triangle.

2) 3 ft, 21 ft, 30 ft

The sides not form a triangle.

3) 13 yd, 9 yd, 16 yd

The sides form a triangle.

4) 4 in, 2 in, 8 in

The sides not form a triangle.

5) 8 ft, 16 ft, 21 ft

The sides form a triangle.

6) 11 yd, 20 yd, 5 yd

The sides not form a triangle.