



Triangle Inequality

Name _____

Score _____

TI:04

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

1) 8 mm, 10 mm, 12 mm

Yes

No

2) 12 m, 9 m, 15 m

Yes

No

3) 2 cm, 7 cm, 13 cm

Yes

No

4) 14 mm, 20 mm, 6 mm

Yes

No

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

1) 14 cm, 10 cm, 13 cm

2) 18 m, 24 m, 30 m

3) 4 mm, 16 mm, 21 mm

4) 11 m, 12 m, 25 m

5) 7 mm, 9 mm, 6 mm

6) 5 cm, 3 cm, 17 cm



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Answer key

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

1) 14 cm, 10 cm, 13 cm

The sides form a triangle.

2) 18 m, 24 m, 30 m

The sides form a triangle.

3) 4 mm, 16 mm, 21 mm

The sides not form a triangle.

4) 11 m, 12 m, 25 m

The sides not form a triangle.

5) 7 mm, 9 mm, 6 mm

The sides form a triangle.

6) 5 cm, 3 cm, 17 cm

The sides not form a triangle.