

Geometry — Triangle inequality

Name: _____

Date: _____

Can these three lengths form a triangle? Answer Yes or No.

1

— 3

— 13

— 14

Yes

No

2

— 3

— 7

— 10

Yes

No

3

— 6

— 8

— 14

Yes

No

4

— 3

— 11

— 16

Yes

No

5

— 5

— 6

— 9

Yes

No

6

— 7

— 8

— 15

Yes

No

7

— 5

— 7

— 10

Yes

No

8

— 4

— 10

— 10

Yes

No



Triangle inequality — Answer key

1. 3, 13, 14: Yes

2. 3, 7, 10: No

3. 6, 8, 14: No

4. 3, 11, 16: No

5. 5, 6, 9: Yes

6. 7, 8, 15: No

7. 5, 7, 10: Yes

8. 4, 10, 10: Yes

