

**State if the three numbers can be the measures of the sides of a triangle.**

1) 7, 7, 8

2) 1, 11, 10

3) 10, 12, 6

4) 7, 17, 7

**Two sides of a triangle have the following measures. Find the range of possible measures for the third side.**

5) 11, 9

6) 10, 7

7) 12, 12

8) 6, 10

9) 7, 8

10) 6, 8

11) 6, 7

12) 7, 11

13) 8, 9

14) 8, 8

## Answers to

1) Yes

5)  $2 < x < 20$

9)  $1 < x < 15$

13)  $1 < x < 17$

2) No

6)  $3 < x < 17$

10)  $2 < x < 14$

14)  $0 < x < 16$

3) Yes

7)  $0 < x < 24$

11)  $1 < x < 13$

4) No

8)  $4 < x < 16$

12)  $4 < x < 18$