

WS 5-5 The Triangle Inequality

Date_____ Period____

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

1) 8, 24, 12

2) 12, 11, 15

3) 4, 8, 15

4) 9, 8, 4

5) 12, 8, 14

6) 16, 24, 10

7) 30, 11, 15

8) 1, 14, 15

9) 21, 14, 9

10) 15, 31, 13

11) 12, 11, 2

12) 14, 3, 14

13) 9, 19, 8

14) 13, 25, 10

15) 13, 9, 9

16) 4, 13, 9

17) 16, 13, 22

18) 9, 11, 17

19) 13, 10, 11

20) 10, 5, 16

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

21) 14, 12

22) 10, 16

23) 13, 14

24) 8, 14

25) 14, 15

26) 12, 8

27) 10, 13

28) 8, 15

29) 11, 9

30) 11, 12

31) 13, 13

32) 16, 16

33) 8, 10

34) 8, 9

35) 15, 11

36) 13, 16

37) 9, 10

38) 9, 14

39) 16, 11

40) 13, 15