Integrated III Name_____

Review Topics of Statistics WS #1

Date_____ Period____

Find the mode, median, mean, and range for each data set.

1) Goals in a Hockey Game

5	6	9	11	5	9	7	4
7	6	11	11	6	5	10	2
6							

2) Shoe Size

10	7	7.5	6	6	7	7
5	6.5	9	7	9.5	7.5	6.5
6	6.5					

3) # Words in Book Titles

1	2	3	2	6	1	2	2
2	2	3	2	2	3	4	2

4) Shoe Size

5.5	9	6	7	9	8	7
8.5	7.5	8.5	4	10	8.5	6.5
7.5	8.5	6.5				

5) Shoe Size

8	10	9	6.5	9	8.5	8
9	7	10	9	7.5	10	5
8	6.5	7.5				

6) Hours Slept

6.75	8.75	5.75	8	6.5	8
7.25	7.75	6.25	7.5	8	6
7.25	9.25	6.25	6.25		

7) Test Scores

53	42	51	42	51	48	54
44	50	56	34	52	42	51
45	46	50				

8) # Words in Book Titles

5	4	5	2	3	4	2	3
3	1	4	1	5	3	2	

9) Car Weights (kg)

1,765	1,785	1,720	1,090	1,765
1,780	1,790	1,705	1,685	1,580
1,065	1,185	1,670	1,290	1,485
1,505	1,655			

10) Hits in a Round of Hacky Sack

8	6	5	2	4	6	15
4	10	5	10	15	13	3
5						

Find the median, lower quartile, and upper quartile for each data set.

11) Games per World Series

7	4	6	7	4	7	7	7
7	7	4	6	6	5	6	6
5							

12) Age at First Job

15	17	12	13	14	16	16
14	17	22	17	16	22	18
18	13					

13) Annual Precipitation (Inches)

55.4	12.4	26.8	57.6	28.8
29.4	53.6	7.2	60.8	44.2
16.2	34.4	48.4	26.4	12.8

14) Hours Slept

7.5	7	6.25	6.25	6.75
6.75	5.25	7.5	6.25	8
7	6.25	7.5	7.75	7.25
7.5	6.25			

15) Games per World Series

7	7	7	5	7	4	6	7
6	6	4	6	6	5	7	7

16) # Words in Book Titles

2	1	1	2	1	4	3	2
2	5	4	3	4	2	2	4

17) Test Scores

53	49	59	51	50	50	43
41	53	31	53	39	53	45
49	50	55				

18) Goals in a Hockey Game

4	6	5	8	9	8	6	5
5	3	6	3	5	5	7	6
9							

19) Shoe Size

6	7	8.5	6	5	7	7.5
9.5	8	7	9	8.5	6.5	8
6	4	8				

20) Mens Heights (Inches)

72	66	71	65	68	65	70
66	63	68	71	67	74	68
78						

Draw a stem-and-leaf plot for each data set.

21) Minutes to Run 5km

33.1	44	33.9	27	27.2	19
37.7	26.5	36.9	25	29	

22) Test Scores

53	60	54	36	46	44	42
54	46	45	46			

23) Annual Precipitation (Inches)

56.2	28.2	35.4	50.6	36.4
37.2	68.8	60.8	45.2	67.4
44.4				

24) Test Scores

60	46	46	49	51	34	52
53	34	38				

25) Mens Heights (Inches)

81	67	59	64	64	71	75
72	72	72	66			

26) Annual Precipitation (Inches)

41	32.2	39.4	27.6	45.6	49
16	18.4	29.4			

27) Annual Precipitation (Inches)

38.8	44.8	18	49.8	38.2
58.4	35.6	11.8	41.2	28.4
29.2				

28) Minutes to Run 5km

43.8	25.6	28.5	35.7	37.5
33.8	37.5	19.1	31.5	

Draw a box-and-whisker plot for each data set.

29) Goals in a Hockey Game

3	5	5	5	6	6	7	7
9	10						

30) Hits in a Round of Hacky Sack

3	3	4	5	5	8	9	18
19							

31) Annual Precipitation (Inches)

10.2	10.6	11.8	19.4	19.4	36
36.4	37.8	40.2	41.4	61.8	

32) Test Scores

39	40	44	47	47	48	48
49	50	56				

33) Test Scores

40	47	50	41	56	47	50
50	53	49	42			

34) Age at First Job

18	14	12	19	22	17	18
13	17	17				

Answers to Review Topics of Statistics WS #1

1) Mode = 6, Median = 6, Mean = 7.06 and Range = 9
2) Mode = 7, Median = 7, Mean = 7.13 and Range = 5
3) Mode = 2, Median = 2, Mean = 2.44 and Range = 5
4) Mode = 8.5, Median = 7.5, Mean = 7.5 and Range = 6
5) Mode = 9, Median = 8, Mean = 8.15 and Range = 5
6) Mode = 6.25 and 8, Median = 7.25, Mean = 7.22 and Range = 3.5
7) Mode = 42 and 51, Median = 50, Mean = 47.71 and Range = 22
8) Mode = 3, Median = 3, Mean = 3.13 and Range = 4
9) Mode = 1,765, Median = 1,670, Mean = 1,560 and Range = 725
10) Mode = 5, Median = 6, Mean = 7.4 and Range = 13
11) Median = 6, Q_1 = 5 and Q_3 = 7
12) Median = 16, Q_1 = 14 and Q_3 = 17.5
13) Median = 29.4, Q_1 = 16.2 and Q_3 = 53.6
14) Median = 7, Q_1 = 6.25 and Q_3 = 7.5
15) Median = 6, Q_1 = 5.5 and Q_3 = 7
16) Median = 2, Q_1 = 2 and Q_3 = 4
17) Median = 50, Q_1 = 44 and Q_3 = 53
18) Median = 6, Q_1 = 5 and Q_3 = 7.5
19) Median = 7, Q_1 = 6 and Q_3 = 8.25
20) Median = 68, Q_1 = 66 and Q_3 = 71

21)

Stem	Leaf
1	9
2	5 7 7 7 9
3	3 4 7 8
4	4

Key: 2|7 = 27

22)

Stem	Leaf
3	6
4	2 4 5 6 6 6
5	3 4 4
6	0

Key: 4|5 = 45

23)

Stem	Leaf
2	8
3	5 6 7
4	4 5
5	1 6
6	1 7 9

Key: 3|7 = 37

24)

Stem	Leaf
3	4 4 8
4	6 6 9
5	1 2 3
6	0

Key: 4|6 = 46

25)

Stem	Leaf
5	9
6	4 4 6 7
7	1 2 2 2 5
8	1

Key: 6|7 = 67

26)

Stem	Leaf
1	6 8
2	8 9
3	2 9
4	1 6 9

Key: 2|9 = 29

27)

Stem	Leaf
1	2 8
2	8 9
3	6 8 9
4	1 5
5	0 8

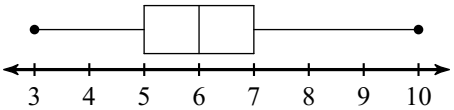
Key: 2|9 = 29

28)

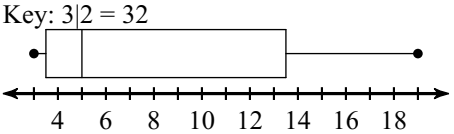
Stem	Leaf
1	9
2	6 9
3	2 4 6 8 8
4	4

Key: 3|2 = 32

29)



30)



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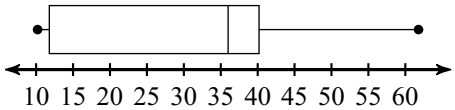

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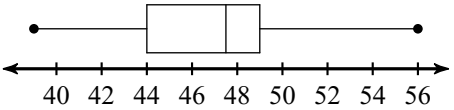

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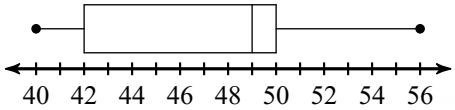

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