

Review Topics of Statistics WS #2

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

1) Minutes to Run 5km

31 36.6 40 21.7 32.2
32.8 33.4 31.6 33.4 30.7
26.6 30.4 33.9 23.4 46.7

2) Age at First Job

17 21 20 19 17 11 15
16 12 16 14 16 17 17
16 18 19

3) Hours Slept

6.5 8 7.75 6.25 5.5
8.25 7.25 8 6.25 5.75
8.25 5.5 6.75 6.25 5.75
7.25 7.25

4) Goals in a Hockey Game

10 3 5 7 7 6 7 1
4 1 3 6 4 4 5 5
5

5) Hours Slept

6.25 6.25 7.75 5.75 8.25
7.5 6.5 7 6.75 7.5
6.25 8.5 8.5 6.25 7
7 6.25

6) Goals in a Hockey Game

6 11 8 7 6 1 3 7
7 8 7 4 4 9 7 5
6

7) Test Scores

44 42 48 47 48 48 47
57 50 54 42 47 48 50
48

8) Hours Slept

6.25 5.5 6.25 5.5 4.5
6.75 5 8.5 7 6.25
6.75 6.5 7.75 6.25 6.75
8

9) Hits in a Round of Hacky Sack

4 8 1 5 8 6 9
20 5 5 4 13 12 7
19 12

10) Hits in a Round of Hacky Sack

6 15 5 1 7 15 7
7 15 13 5 7 4 12
13 6 8

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

11) Minutes to Run 5km

34.3 46.1 28.5 33.1 18.2
35.5 25.2 27 33.4 22.5
35.5 43.6 35.6 19.2 41.7

12) Annual Precipitation (Inches)

65.6 68.6 16.8 14.6 17.8
48.8 18.8 24.6 9 38
34.6 7 16.4 14.4 15.4
51.8 59

13) Hits in a Round of Hacky Sack

6 7 3 5 12 8 13
20 18 5 7 4 9 9
3 1

14) Shoe Size

9.5 8 9 7 9 6.5 8.5
9 10 7 8 7 9 8
8 7.5

15) Test Scores
 49 52 40 54 53 45 33
 51 46 52 44 45 50 41
 50

16) Hours Slept
 7 6.5 9.75 7 7.25
 7 7.75 5.5 6.5 8.5
 7.75 5.75 7.25 8 7.75
 7.75 4.5

17) Mens Heights (Inches)
 71 77 72 70 63 62 68
 69 70 69 68 77 64 68
 72 60

18) Goals in a Hockey Game
 11 5 11 11 5 5 9 6
 7 3 10 2 3 6 9 5
 7

19) Age at First Job
 15 14 16 20 15 17 15
 23 17 18 13 15 18 16
 16

20) Goals in a Hockey Game
 7 8 8 6 5 3 7 6
 11 5 8 6 5 7 9 5

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

21) Minutes to Run 5km
 22 33.4 22.3 36.3 29.1 34
 16.5 34.4 33.5 39.9

22) Mens Heights (Inches)
 66 68 59 69 77 62 63
 81 74 70 69

23) Annual Precipitation (Inches)
 43 28.8 9.6 33 34.6
 11.8 23.8 41.4 35.8 17.4

24) Minutes to Run 5km
 41.2 26.7 32.8 22.8 30.6
 30.5 37 34.1 33.9 18.5

25) Mens Heights (Inches)
 63 75 66 72 70 66 82
 66 58 69

26) Annual Precipitation (Inches)
 58.6 40.8 44.8 31.6 29.2 23
 53.8 54.8 21.6

27) Mens Heights (Inches)
 80 67 66 68 59 75 59
 61 74 71 71

28) Minutes to Run 5km
 17.8 29 33.3 28 31.9
 23.6 18.7 32.7 23.3 44.1

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

29) Age at First Job
 13 13 14 17 17 17 18
 18 18 19 21

30) Goals in a Hockey Game
 2 3 3 4 5 5 5 5
 6 6 7

31) Test Scores
 34 37 39 42 46 47 50
 51 52

32) Mens Heights (Inches)
 68 69 71 71 73 74 75
 75 76

33) Shoe Size
 9 8 11 12 7 8.5 4.5
 10 9

34) Shoe Size
 7.5 9.5 9.5 6.5 9 7 5.5
 8 8 8.5

Answers to Review Topics of Statistics WS #2

- 1) Mode = 33.4, Median = 32.2, Mean = 32.29 and Range = 25
- 2) Mode = 16 and 17, Median = 17, Mean = 16.53 and Range = 10
- 3) Mode = 6.25 and 7.25, Median = 6.75, Mean = 6.85 and Range = 2.75
- 4) Mode = 5, Median = 5, Mean = 4.88 and Range = 9
- 5) Mode = 6.25, Median = 7, Mean = 7.01 and Range = 2.75
- 6) Mode = 7, Median = 7, Mean = 6.24 and Range = 10
- 7) Mode = 48, Median = 48, Mean = 48 and Range = 15
- 8) Mode = 6.25, Median = 6.375, Mean = 6.47 and Range = 4
- 9) Mode = 5, Median = 7.5, Mean = 8.63 and Range = 19
- 10) Mode = 7, Median = 7, Mean = 8.59 and Range = 14
- 11) Median = 33.4, $Q_1 = 25.2$ and $Q_3 = 35.6$
- 12) Median = 18.8, $Q_1 = 15$ and $Q_3 = 50.3$
- 13) Median = 7, $Q_1 = 4.5$ and $Q_3 = 10.5$
- 14) Median = 8, $Q_1 = 7.25$ and $Q_3 = 9$
- 15) Median = 49, $Q_1 = 44$ and $Q_3 = 52$
- 16) Median = 7.25, $Q_1 = 6.5$ and $Q_3 = 7.75$
- 17) Median = 69, $Q_1 = 66$ and $Q_3 = 71.5$
- 18) Median = 6, $Q_1 = 5$ and $Q_3 = 9.5$
- 19) Median = 16, $Q_1 = 15$ and $Q_3 = 18$
- 20) Median = 6.5, $Q_1 = 5$ and $Q_3 = 8$

21)

Stem	Leaf
1	7
2	2 2 9
3	3 4 4 4 6
4	0

Key: 2|9 = 29

24)

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

22)

Stem	Leaf
5	9
6	2 3 6 8 9 9
7	0 4 7
8	1

Key: 6|8 = 68

25)

Stem	Leaf
5	8
6	3 6 6 6 9
7	0 2 5
8	2

23)

Stem	Leaf
1	0 2 7
2	4 9
3	3 5 6
4	1 3

Key: 2|4 = 24

26)

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

27)

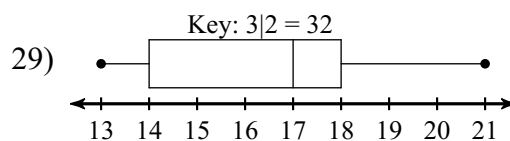
Stem	Leaf
5	9 9
6	1 6 7 8
7	1 1 4 5
8	0

Key: 3|1 = 31

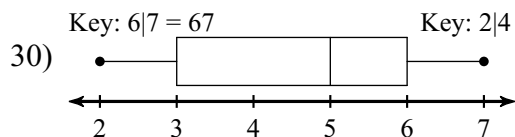
28)

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

Key: 6|9 = 69

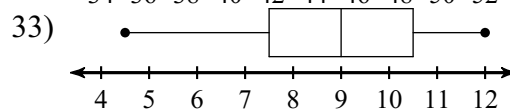
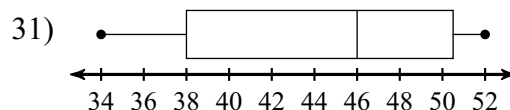
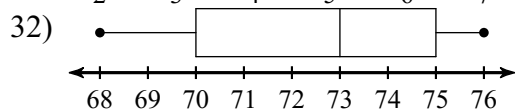


Key: 3|2 = 32



Key: 6|7 = 67

Key: 2|4 = 24



34)

