

Review: Statistics

The data set below shows the ages of 24 people who were treated at a local hospital.

25 12 30 20 15 21 16 13

18 27 43 23 19 22 20 67

53 19 25 66 35 11 20 37

- 1) Represent the data by creating an Ordered Stem & Leaf Plot.
- 2) Calculate the mean, median & mode of the data set.

The data set below shows the ages of your teachers & coaches at school.

39 32 27 42 21 35 38

- 3) Find the First, Second & Third Quartile of the data set.
- 4) Represent the data by creating a Box & Whisker Plot.

12 students go to school by riding the bus, 8 drive to school & 5 walk to school. If a student is picked at random, calculate the probability that it will be a student who:

- 5) walks to school
- 6) rides the bus
- 7) drives to school

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You have a bag of marbles: 20 are white, 10 green & 6 blue. Suppose you choose a marble from the bag, return it to the bag & then choose a second marble. Calculate each:

8) $P(W \& G)$

9) $P(G \& B)$

10) $P(W \& W)$

Suppose you have the same bag of marbles above. This time you choose a marble from the bag & do not return it to the bag. Then you choose a second marble. Calculate each:

11) $P(W \& G)$

12) $P(G \& B)$

13) $P(W \& W)$

Suppose you have the same bag of marbles. This time you choose only one marble. Calculate each:

14) $P(W \text{ OR } G)$

15) $P(G \text{ OR } B)$

Answers:

1)	1	1	2	3	5	6	8	9	9	
	2	0	0	0	1	2	3	5	5	7
	3	0	5	7						
	4	3								
	5	3								
	6	6	7							

Key: $4/3 = 4$

Key: $4/3 = 43$

2) mean = 27.38

median = 21.5

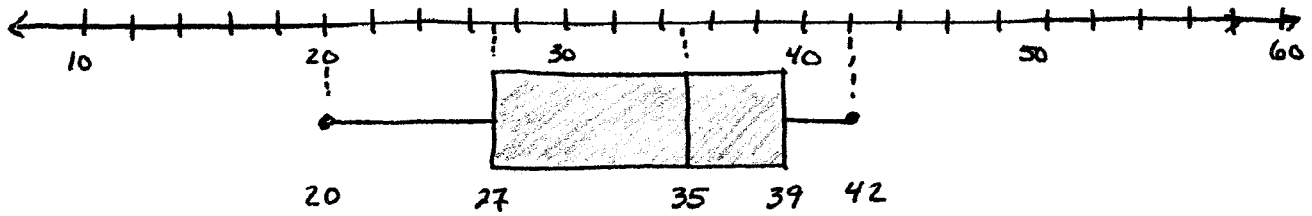
mode = 20

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Answers:

3) $Q1 = 27$, $Q2 = 35$, $Q3 = 39$

4)



5) $\frac{1}{5} = .2$

6) $\frac{12}{25} = .48$

7) $\frac{8}{25} = .32$

8) $.15$

9) $.046$

10) $.31$

11) $.16$

12) $.048$

13) $.44$

14) $.83$

15) $.44$