

Warm Up Questions

#1. Create a normal curve for the following data.

25, 58, 35, 56, 46

- a) What is the percentage of getting less than 19?
- b) Where does the majority of the data lie?
- c) What is the percentage of getting greater than 56.5?

#2 Construct a box & whisker and stem & leaf for the following data:

35, 37, 38, 25, 26, 28, 10, 37, 29

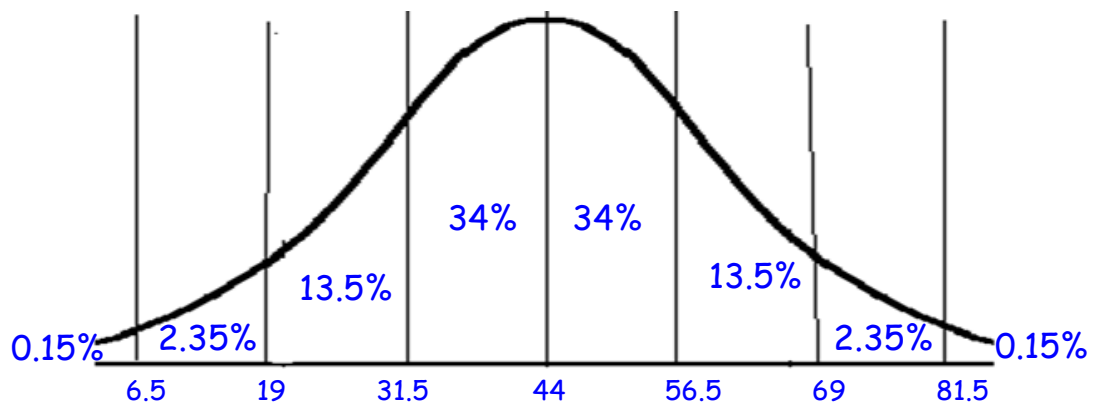
Standard Deviation

Data	Deviation	Squared Deviation
25	$44 - 25 = 19$	361
58	$44 - 58 = -14$	196
35	$44 - 35 = 9$	81
56	$44 - 56 = -12$	144
46	$44 - 46 = -2$	4

$$786/5 = 157.5$$

$$\sqrt{157.5} = 12.5$$

Mean = 44
SD = 12.5



- a) 2.5%
- b) 19 - 69
- c) 16%

35, 37, 38, 25, 26, 28, 10, 37, 29

10, 25, 26, 28, 29, 35, 37, 37, 38

10 - 38

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

= 9

35, 37, 38, 25, 26, 28, 10, 37, 29

10, 25, 26, 28, 29, 35, 37, 37, 38

Lower Extreme: 10

Upper Extreme: 38

Median: 29

Lower Quartile: 25.5

Upper Quartile: 37

Mean: 29.4

} BOX

