

**Find the median, mean, lower quartile, upper quartile, and interquartile range for each data set.**

1) Nobel Laureates

Name	Age	Name	Age	Name	Age
Michael Stuart Brown	44	Ahmed Hasssan Zewail	53	Jerome Karle	67
François Jacob	45	Karl Alexander Müller	59	Robert Alexander Mundell	67
Craig Cameron Mello	46	Mikhail Sergeyeovich Gorbachev	59	Edward Donnall Thomas	70
Werner Arber	49	Françoise Barré-Sinoussi	61	Douglass Cecil North	73
Bert Sakmann	49	William E. Moerner	61	Tomas Gösta Tranströmer	80
Toni Morrison	52	David Morris Lee	65		

- A) Median = 59, Mean = 58.82,  $Q_1 = 49$ ,  $Q_3 = 67$  and IQR = 18
- B) Median = 60, Mean = 59.41,  $Q_1 = 50$ ,  $Q_3 = 66$  and IQR = 16
- C) Median = 55, Mean = 56.71,  $Q_1 = 47.5$ ,  $Q_3 = 67.5$  and IQR = 20
- D) Median = 57, Mean = 54.82,  $Q_1 = 49.5$ ,  $Q_3 = 62.5$  and IQR = 13

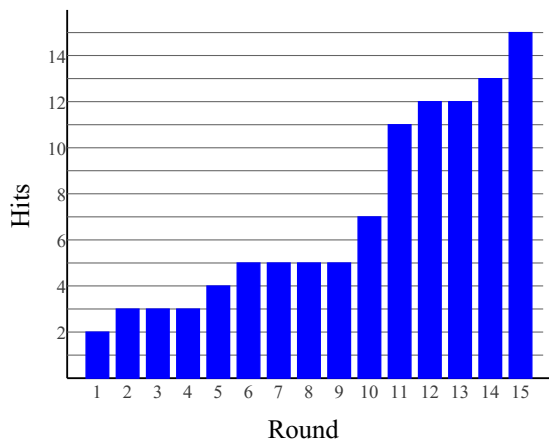
2) Melting Point (°C)

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

Key: 1|4 = 1,400

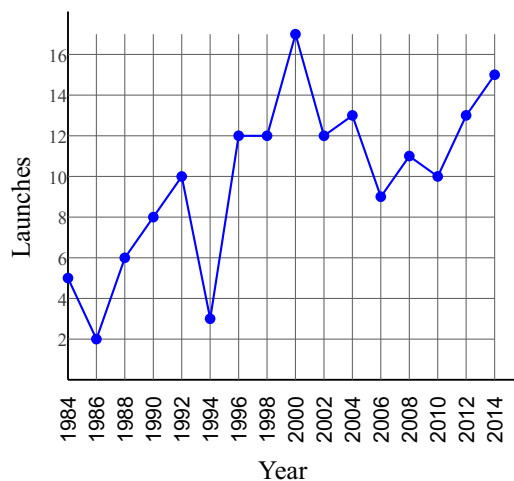
- A) Median = 850, Mean = 981.25,  $Q_1 = 150$ ,  $Q_3 = 1,500$  and IQR = 1,350
- B) Median = 550, Mean = 868.75,  $Q_1 = 150$ ,  $Q_3 = 1,500$  and IQR = 1,350
- C) Median = 700, Mean = 693.75,  $Q_1 = 150$ ,  $Q_3 = 1,100$  and IQR = 950
- D) Median = 700, Mean = 956.25,  $Q_1 = 100$ ,  $Q_3 = 1,500$  and IQR = 1,400

3) Hits in a Round of Hacky Sack



- A) Median = 6, Mean = 7.4,  $Q_1 = 4$ ,  $Q_3 = 9$  and IQR = 5
- B) Median = 7, Mean = 9.93,  $Q_1 = 6$ ,  $Q_3 = 17$  and IQR = 11
- C) Median = 5, Mean = 7,  $Q_1 = 3$ ,  $Q_3 = 12$  and IQR = 9
- D) Median = 6, Mean = 8.13,  $Q_1 = 4$ ,  $Q_3 = 12$  and IQR = 8

4) European Spacecraft Launches



- A) Median = 8.5, Mean = 8.25,  $Q_1 = 4.5$ ,  $Q_3 = 12$  and IQR = 7.5  
 B) Median = 10, Mean = 9.06,  $Q_1 = 5.5$ ,  $Q_3 = 12$  and IQR = 6.5  
 C) Median = 8, Mean = 7.94,  $Q_1 = 5$ ,  $Q_3 = 10$  and IQR = 5  
 D) Median = 10.5, Mean = 9.88,  $Q_1 = 7$ ,  $Q_3 = 12.5$  and IQR = 5.5

5) Car Weights (kg)

870    1,020    1,190    1,235    1,290  
 1,300    1,350    1,425    1,500    1,525  
 1,530    1,550    1,725    1,755    1,855  
 1,875

- A) Median = 1,462.5, Mean = 1,437.19,  $Q_1 = 1,262.5$ ,  $Q_3 = 1,637.5$  and IQR = 375  
 B) Median = 1,465, Mean = 1,486.56,  $Q_1 = 1,257.5$ ,  $Q_3 = 1,765$  and IQR = 507.5  
 C) Median = 1,570, Mean = 1,555.31,  $Q_1 = 1,380$ ,  $Q_3 = 1,725$  and IQR = 345  
 D) Median = 1,437.5, Mean = 1,415.63,  $Q_1 = 1,272.5$ ,  $Q_3 = 1,600$  and IQR = 327.5

Find the population standard deviation for each data set.

6) Test Scores

41    52    49    50    39    35    54  
 38    45    47    46    50    51    53  
 43    52

- A) 4.47            B) 6.6  
 C) 7                D) 5.68

7) Life Expectancy

State	Years	State	Years
Kansas	78.6	Mississippi	74.2
Connecticut	82.7	Iowa	79.8
Tennessee	77.9	Pennsylvania	81.6
Florida	81.7	Delaware	77
Kentucky	74.7	Arkansas	74.2
Colorado	80.9	New Mexico	77.7
Ohio	81	Indiana	81.3
Louisiana	78.2	Massachusetts	83.8

- A) 2.59            B) 2.33  
 C) 2.92            D) 2.39