

# Sample Standard Deviation WS #1

**Find the sample standard deviation for each data set.**

1) Nobel Laureates

Name	Age	Name	Age	Name	Age
Heinrich Rohrer	53	Kailash Satyarthi	60	Kenneth Joseph Arrow	51
Günter Wilhelm Grass	72	Robert Carhart Merton	53	George Andrew Olah	67
Richard Robert Ernst	58	Bert Sakmann	49	Avram Hershko	66
John Ernest Walker	56				

2) Academy Awards

Movie	# Awards
West Side Story	10
The Best Years of Our Lives	7
12 Years a Slave	3
Mrs. Miniver	6
The Sting	7
Forrest Gump	6
Unforgiven	4
The Great Ziegfeld	3
Gone with the Wind	8

3) Hits in a Round of Hacky Sack

2	8	3	5	6	1	5	4
8	9						

4) Nobel Laureates

Name	Age	Name	Age	Name	Age
Avram Hershko	66	Frederik Willem de Klerk	57	Hartmut Michel	40
Karl Alexander Müller	59	Irwin Allan Rose	78	James Alexander Mirrlees	60
Christopher Albert Sims	69	Edmond Henri Fischer	72	Jorge Mario Pedro Vargas Llosa	74
Mikhail Sergeevich Gorbachev	59				

5) Minutes to Run 5km

22.4	27.8	32.4	26.2	34.4
28.1	33.2	36	19.8	32
30.6				

6) Basketball Tournament Champions

School	Times Won	School	Times Won	School	Times Won	School	Times Won
UNLV	1	San Francisco	2	Indiana	5	Cincinnati	2
Arkansas	1	California	1	UCLA	11	Maryland	1
Loyola-Chicago	1	Georgetown	1				

7) Goals in a Hockey Game

4 7 5 5 4 4 5 5  
10 7

8) Age at First Job

18 18 15 15 15 17 22  
20 20

9) Life Expectancy

State	Years	State	Years
Massachusetts	83.8	New York	82.5
Rhode Island	79.7	Arizona	79.3
Maryland	81	Tennessee	77.9
Maine	79.1	Nebraska	79.8
West Virginia	74.1		

10) Annual Precipitation (Inches)

33 11.6 43.2 32.8 65 47  
64.8 19 50.2 61.6 57

11) Age at First Job

22 12 13 17 16 14 17  
15 11 14

12) # Words in Book Titles

3 1 2 5 4 2 2 1  
6 1 2

13) Mens Heights (Inches)

68 66 68 76 71 67 72  
75 71 68

14) Basketball Tournament

School	Appearances	School	Appearances	School	Appearances
Weber State	15	Utah State	20	Eastern Michigan	4
Louisiana-Monroe	7	South Carolina State	5	La Salle	12
Wichita State	12	Missouri	25	James Madison	5
Toledo	4				

15) Minutes to Run 5km

34.5 34.1 21.9 20.1 38.3 41  
42 29.3 29.1 35.6 29.2

16) Test Scores

53 46 50 44 55 44 50  
50 54

## Answers to Sample Standard Deviation WS #1

1) 7.65  
5) 5.06  
9) 2.77  
13) 3.39

2) 2.35  
6) 3.2  
10) 18.23  
14) 7.31

3) 2.69  
7) 1.9  
11) 3.14  
15) 7.15

4) 10.94  
8) 2.54  
12) 1.69  
16) 4.13