

$$Z = \frac{(X - \bar{X})}{S}$$

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X	$(X - \bar{X})$	$(X - \bar{X})^2$	z-scores	T-score	Stanine	SAT Score	WAIS	Stan.Binet		
58	13.3333	177.7778	0.9160	59	6	592	114	115		
63	18.3333	336.1111	1.2595	63	6	626	119	120		
45	0.3333	0.1111	0.0229	50	5	502	100	100		
50	5.3333	28.4444	0.3664	54	5	537	105	106		
30	-14.6667	215.1111	-1.0076	40	4	399	85	84		
22	-22.6667	513.7778	-1.5572	34	3	344	77	75		
Sums =	268	0	1271.3333 = SS	Means =	0	50	5	500	100	100
n=	6		211.8889 = S²							
\bar{X} =	44.6667		14.5564 = S							

$$SS = \sum (X - \bar{X})^2$$

$$\bar{X} = \frac{\sum X}{n}$$

$$S^2 = \frac{\sum (X - \bar{X})^2}{n}$$

$$S = \sqrt{\frac{\sum (X - \bar{X})^2}{n}}$$