

Calculate the standard deviation for the population.
 $N=8$ 73, 14, 21, 45, 18, 74, 32, 37

$$\text{mean } \bar{x} = \frac{73+14+21+45+18+74+32+37}{8}$$

$$= \frac{314}{8} = 39.25$$

x	$d=x-\bar{x}$	d f	d^2
73	33.75	1	1139.0625
14	-25.25	1	637.5625
21	-18.25	1	333.0625
45	5.75	1	33.0625
18	-21.25	1	451.5625
74	34.75	1	1207.5625
32	-7.25	1	52.5625
37	-2.25	1	5.0625
		$\Sigma f = 8$	$\Sigma d^2 = 3,859.5$

$$\text{Variance} = \frac{\Sigma d^2}{N} = \frac{3859.5}{8} = 482.4375$$

$$\text{Standard deviation} = \sqrt{482.4375}$$

$$= 21.9645$$