$$SD = \sqrt{\frac{\sum (x - \overline{x})^2}{n}}$$

With frequency:

$$\sigma = \sqrt{\frac{\sum f[x - \overline{x}]^2}{\sum f}}$$

Application:

A class of 50 students took their MAPEH exam and their marks are illustrated below. Solve for the SD

71 class of the state to the time to the t						
Marks	61-65	66-70	71-75	76-80	81-85	
Number of Students	13	8	10	15	4	

Students

$$\sigma = \sqrt{\frac{\sum f[x-\overline{x}]^2}{\sum f}}$$
The preview from Notes ale. Co. UK

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$$x - \overline{x}$$

$$x - \overline{x} \wedge 2$$

Let's apply the procedure:

X	$x-\overline{x}$	$x-\overline{x}$ ^2	$F(x-\overline{x})^2$
63	-8.9	79.21	1029.73
68	-3.9	15.21	121.68
73	1.1	1.21	12.1
78	6.1	37.21	558.15
83	11.1	123.21	492.84