

A hand-drawn diagram of a cell. It features a large, irregular outer boundary representing the cell membrane. Inside this boundary is a smaller, roughly circular structure representing the nucleus. Within the nucleus is a smaller, denser, and more circular structure representing the nucleolus. The drawing is done in black ink on a white background.

Formula :-

$$S.D = \sqrt{\frac{\sum fd'^2}{N} - \left[\frac{\sum fd'}{N} \right]^2} \times C$$

Problem:-

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	10	20	40	30	20	10

70-80	4
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JANUARY 2000
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JANUARY														2000	
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
						1	2	3	4	5	6	7	8		
9	10	11	12	13	14	15	16	17	18	19	20	21	22		
23	24	25	26	27	28	29	30	31							

JANUARY '2000

THURSDAY 13

APPOINTMENTS

Class X	mid X	Frequency (f)	Assumed mean(A) = 35 mid mid X - A = d	$\frac{d}{C} = d'$ C = 10	$(d')^2$	$f d'$	$f d'^2$
0-10	5	5	-30	$\frac{30}{10} = -3$	9	-15	45
10-20	15	10	-20	$\frac{20}{10} = -2$	4	-20	40
20-30	25	20	-10	$\frac{10}{10} = -1$	1	-20	20
30-40	35 = A	40	0	$\frac{0}{10} = 0$	0	0	0
40-50							
40-50	45	30	+10	$\frac{10}{10} = 1$	1	30	30
50-60	55	20	+20	$\frac{20}{10} = 2$	4	40	80
60-70	65	10	+30	$\frac{30}{10} = 3$	9	30	90
70-80	75	4	+40	$\frac{40}{10} = 4$	16	16	64
						$\Sigma f d' = 61$	$\Sigma f d'^2 = 369$

WORK TO-DO

 $N = 139$
 $N = 55 + 116$
 $\Sigma f d' = 61$
 $\Sigma f d'^2 = 369$

$$S.D. = \sqrt{\frac{\Sigma f d'^2}{N} - \left[\frac{\Sigma f d'}{N} \right]^2} \times C$$

$$= \sqrt{\frac{369}{139} - \left[\frac{61}{139} \right]^2} \times 10$$

$$= \sqrt{2.65 - (0.4388)^2} \times 10$$

$$= \sqrt{2.65 - 0.1925} \times 10$$

$$= \sqrt{2.4575} \times 10 = 15.676$$

$$S.D. = 15.676$$

PHONES

2000
 FEBRUARY
 S M T W T F S S M T W T F S
 1 2 3 4 5 6 7 8 9 10 11 12
 13 14 15 16 17 18 19 20 21 22 23 24 25 26
 27 28 29