# Deciles for Grouped Data | Total points = 66

## Scores of 10–Tesla Students in the $\mathbf{4}^{th}$ Periodic Test in Mathematics

		✓
Score	f	cf<
46 – 50	2	50
41 – 45	9	48
36 – 40	13	39
31 – 35	11	26
26 - 30	10	15
21 – 25	5	5
i = 5 <b>√</b>	N = 50 ✓	

	$i = 5$ $\checkmark$ $N = 50$	<b>√</b>
1.		
	$36 - 40 D_6 \checkmark$	$D_1 = 20.5 + \left  \frac{10}{5} \right  5 \checkmark$
	$\frac{6(50)}{10} = 30 \checkmark$ $36 - 40 D_6 \checkmark$ $D_6 = Ib + \left[\frac{6N}{10} - cf_b\right] i \checkmark$ $\begin{bmatrix} 6(50) & 0.5 \end{bmatrix} 4.$	$D_1 = 20.5 + 5 \checkmark$ $D_1 = 25.5 \checkmark$
	$D_{6} = lb + \left\lfloor \frac{10 - cr_{b}}{f_{D_{6}}} \right\rfloor i \checkmark$ $D_{6} = 35.5 + \left\lfloor \frac{6(50)}{10} - 26 \right\rfloor 5 \checkmark$ $D_{6} = 35.5 + 1.538 \checkmark$ $D_{6} = 37.04 \checkmark$ $\frac{3(50)}{10} = 15 \checkmark$	$\frac{7(50)}{10} = 35 \checkmark 36 - 40 D_7 \checkmark  \left[\frac{7N}{10} - cf_b\right]$
	$D_6 = 35.5 + 1.538 \checkmark$ $D_6 = 37.04 \checkmark$	$D_7 = lb + \left  \frac{10}{f_{D_7}} \right  i \checkmark$
2	$\frac{3(50)}{10} = 15$	[7(50)] <sub>36</sub> ]
۷.	$\frac{10}{26 - 30} \frac{10}{D_3} \checkmark$	$D_7 = 35.5 + \left  \begin{array}{c} \frac{10}{10} - 26 \\ \hline 13 \end{array} \right  5 \checkmark$
	$D_3 = lb + \left  \frac{10}{10} - ct_b \right  i \checkmark$	$D_7 = 35.5 + \left[ \frac{\frac{7(50)}{10} - 26}{13} \right] 5 \checkmark$ $D_7 = 35.5 + 3.462 \checkmark$ $D_7 = 38.96 \checkmark$ 8(50)
	$\begin{bmatrix} \frac{3(50)}{10} - 5 \end{bmatrix} = 5.$	$\frac{8(50)}{10} = 40$
	$D_3 = 25.5 + \left  \frac{10}{10} \right  $	$1 - 45 D_8 \checkmark$ $1 - 8N   1$
	$D_{3} = 25.5 + \begin{bmatrix} \frac{3(50)}{10} - 5 \\ \frac{10}{10} \end{bmatrix} 5.$ $D_{3} = 25.5 + 5 \checkmark$ $D_{3} = 30.5 \checkmark$	$D_8 = Ib + \left  \frac{\frac{10}{10} - cf_b}{f_{D_8}} \right  i \checkmark$
3.	$\frac{50}{10} = 5 \checkmark 21 - 25 D_1 \checkmark$	$D_8 = 40.5 + \left[ \frac{8(50)}{\frac{10}{9}} - 39 \right] 5 \checkmark$
	$D_1 = lb + \left  \frac{\frac{i}{10} - cf_b}{f_D} \right  i \checkmark$	$D_8 = 40.5 + 0.556 \checkmark$

### 

 $D_8 = 41.06 \checkmark$ 

## Scores of 10–Tesla Students in the $4^{th}$ Periodic Test in Mathematics

		✓
Score	f	cf<
46 – 50	2	50
41 – 45	9	48
36 – 40	13	39
31 – 35	11	26
26 – 30	10	15
21 – 25	5	5
<i>i</i> = 5 ✓	N = 50 ✓	

$$\frac{1. \frac{6(50)}{i=5}}{i=5} = 30 \checkmark$$

$$\frac{6(50)}{36-40} = 30 \checkmark$$

$$D_{1} = 20.5 + \begin{bmatrix} \frac{50}{10} - 0 \\ \frac{1}{5} \end{bmatrix} 5 \checkmark$$

$$D_{6} = lb + \begin{bmatrix} \frac{6N}{10} - cf_{b} \\ f_{D_{6}} \end{bmatrix} i \checkmark$$

$$D_{1} = 20.5 + 5 \checkmark$$

$$D_{1} = 25.5 \checkmark$$

$$D_{2} = 25.5 + 5 \checkmark$$

$$D_{3} = 25.5 + 5 \checkmark$$

$$D_{4} = 20.5 + 5 \checkmark$$

$$D_{7} = 25.5 + 5 \checkmark$$

$$D_{7} = 35.5 + 3.462 \checkmark$$

$$D_{7} = 35.5 + 3.462 \checkmark$$

$$D_{7} = 38.96 \checkmark$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - cf_{b}$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{1} = 10 + 5 \xrightarrow{10} \frac{N}{10} - cf_{b}$$

$$D_{2} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{3} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{4} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{5} \checkmark$$

$$D_{6} = 35.5 + 5 \checkmark$$

$$D_{7} = 35.5 + 3.462 \checkmark$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{7} = 35.5 + 5 \checkmark$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{7} = 35.5 + 5 \checkmark$$

$$D_{8} = 40.5 + 5 \xrightarrow{10} \frac{8N}{10} - 39$$

$$D_{1} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{2} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{3} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{4} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{5} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{7} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{7} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

$$D_{7} = 10 + 5 \xrightarrow{10} \frac{N}{10} - 39$$

#### Number of Mistakes Made by 50 Students in Factoring Quadratic Equations

		<u> </u>
Number of Mistakes	f	cf<
0 – 2	4	4
3 – 5	8	12
6 – 8	15	27
9 – 11	10	37
12 – 14	6	43
15 – 17	5	48
18 – 20	2	50

### Number of Mistakes Made by 50 Students in Factoring Quadratic Equations

	•	✓
Number of Mistakes	f	cf<
0 – 2	4	4
3 – 5	8	12
6 – 8	15	27
9 – 11	10	37
12 – 14	6	43
15 – 17	5	48
18 – 20	2	50
i = 3 ./	N = 50 ./	

$$\frac{18-20}{i=3} \checkmark \qquad N=50 \checkmark$$

$$6. \frac{2(50)}{10} = 10 \checkmark$$

$$D_1 = 2.5 + \left[\frac{50}{10} - 4 \\ 8\right] 3 \checkmark$$

$$D_2 = lb + \left[\frac{2N}{10} - cf_b\right] i \checkmark \qquad D_1 = 2.875 \checkmark$$

$$D_1 = 2.875 \checkmark$$

$$D_2 = 2.5 + \left[\frac{2(50)}{10} - 4 \\ 8\right] 3 \checkmark \qquad 9. \frac{6(50)}{10} = 30 \checkmark$$

$$D_2 = 2.5 + 2.25 \checkmark \qquad D_6 = lb + \left[\frac{6N}{10} - cf_b\right] i \checkmark$$

$$D_2 = 4.75 \checkmark$$

$$7. \frac{9(50)}{10} = 45 \checkmark$$

$$15 - 17 D_9 \checkmark \qquad D_6 = 8.5 + \left[\frac{6(50)}{10} - 27 \\ 10\right] 3 \checkmark$$

$$D_9 = lb + \left[\frac{9N}{f_{D_9}}\right] i \checkmark \qquad D_6 = 8.5 + 0.9 \checkmark$$

$$D_6 = 9.4 \checkmark$$

$$D_9 = 14.5 + 1.2 \checkmark \qquad D_8 = lb + \left[\frac{8N}{10} - cf_b\right] i \checkmark$$

$$D_9 = 15.7 \checkmark$$

$$8. \frac{50}{10} = 5 \checkmark$$

$$3 - 5 D_1 \checkmark \qquad D_8 = 11.5 + 1.5 \checkmark$$

$$D_8 = 13 \checkmark$$