

Mode for Grouped Data	
Total points = 16	
Scores of 10–Tesla Students in the 4 th Periodic Test in Mathematics	
Score	Frequency
46 – 50	2
41 – 45	9
36 – 40	13
31 – 35	11
26 – 30	10
21 – 25	5

$i = 5$ ✓
 36 – 40 Mo ✓
 1. $d_1 = 13 - 11 = 2$ ✓
 2. $d_2 = 13 - 9 = 4$ ✓
 3. $\hat{x} = lb_{mo} + \left[\frac{d_1}{d_1 + d_2} \right] i$ ✓
 $\hat{x} = 35.5 + \left[\frac{2}{2 + 4} \right] 5$ ✓
 $\hat{x} = 35.5 + 1.667$ ✓
 $\hat{x} = 37.17$ ✓

Number of Mistakes Made by 50 Students in Factoring Quadratic Equations	
Number of Mistakes	Frequency
0 – 2	4
3 – 5	8
6 – 8	15
9 – 11	10
12 – 14	6
15 – 17	5
18 – 20	2

$i = 3$ ✓
 6 – 8 Mo ✓
 1. $d_1 = 15 - 8 = 7$ ✓
 2. $d_2 = 15 - 10 = 5$ ✓
 3. $\hat{x} = lb_{mo} + \left[\frac{d_1}{d_1 + d_2} \right] i$ ✓
 $\hat{x} = 5.5 + \left[\frac{7}{7 + 5} \right] 3$ ✓
 $\hat{x} = 5.5 + 1.75$ ✓
 $\hat{x} = 7.25$ ✓

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