

NAME: _____

SECTION: _____

SCORE: **30****MEDIAN FOR GROUPED DATA**

I. Determine the value of the median. (20 points)

ANSWER:

$$\tilde{x} = x_{lb} + \left(\frac{\frac{n}{2} - \text{cum}f_b}{f_m} \right) c$$

Classes	f	< CF
11 – 21	7	
22 – 32	23	
33 – 43	31	
44 – 54	40	
55 – 65	43	
66 – 76	45	
77 – 87	15	
88 – 98	6	
	n =	

1. $\frac{n}{2} =$

2. median class:

3. $x_{lb} =$

4. $f_m =$

5. $\text{cum}f_b =$

6. $c =$

MODE FOR GROUPED DATA

I. Determine the value of the mode. (10 points)

ANSWER:

$$\hat{x} = x_{lb} + \left(\frac{d_1}{d_1 + d_2} \right) c$$

Classes	f
11 – 21	7
22 – 32	23
33 – 43	31
44 – 54	40
55 – 65	43
66 – 76	45
77 – 87	15
88 – 98	6
	n =

1. modal class:

2. $d_1 =$

3. $d_2 =$

4. $x_{lb} =$

5. $c =$