

NAME: _____

SECTION: _____

RANGE FOR GROUPED DATA

I. Determine the range of the given frequency distribution table. below. (3 points)

$$R = H - L = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

VARIANCE FOR GROUPED DATA

II. Determine the variance. (72 points)

Classes	f	x	fx	$(x - \bar{x})^2$	$f(x - \bar{x})^2$
11 – 21	7				
22 – 32	23				
33 – 43	31				
44 – 54	40				
55 – 65	43				
66 – 76	45				
77 – 87	15				
88 – 98	6				
	$n =$		$\sum fx =$		$\sum f(x - \bar{x})^2 =$

$$\text{FINAL ANSWER: } s^2 = \frac{\sum f(x - \bar{x})^2}{n} =$$

Classes	f	d	fd	d^2	fd^2
11 – 21	7				
22 – 32	23				
33 – 43	31				
44 – 54	40				
55 – 65	43				
66 – 76	45				
77 – 87	15				
88 – 98	6				
	$n =$		$\sum fd =$		$\sum fd^2 =$

$$\text{FINAL ANSWER: } s^2 = \left[\frac{\sum fd^2}{n} - \left(\frac{\sum fd}{n} \right)^2 \right] c^2 =$$

STANDARD DEVIATION FOR GROUPED DATA

III. Determine the standard deviation. (1 point)

$$\text{FINAL ANSWER: } s = \sqrt{\left[\frac{\sum fd^2}{n} - \left(\frac{\sum fd}{n} \right)^2 \right] c^2} =$$