STEP-1- Dalasel= 88, 92,76,96,68,81,100, 73,89,94,56,87

STEP-2- Mean:

Mean = 
$$Sum/n$$
  
 $Sum = 88 + 92 + 76 + 96 + 68 + 81 + 100 + 73 + 89 + 94 + 56 + 87 = 998$   
 $n = 12$   
 $mean = 998/12 = 83.16$ 

Median: Dataset is ascending order:

55,68, 13,76,81,87,88,89,92,94,95,100

here n=12, an even number, hence median will be the average of 6th and 7th number

$$=7 \frac{87+88}{2} = \frac{176}{2} = \frac{87.6}{2}$$

## Variance.

X	d= x-mean	$d^2$
88	4 - 83	23.36
92	8.83	78.02
16	-7.16	51.36
95	11.83	140.02
68	-15.16	230.02
81	-2.16	4.69
100	16.8	283.36
13	-10.16	103.36
199	6.83	34.02
94	10.83	117.36
56	-28.16	793.36
87	3- 83	14.69

Sum of 
$$d^2 = 1973.667$$
  
variance =  $(1/n) \times \text{Sum}(d^2)$ 

$$=\frac{1873.667}{12}=\frac{156.13}{}$$

Standard Deviation:

$$=\sqrt{Vasiance} = \sqrt{166.13} = +2.4 \cdot 12.49$$

Probability of a score greater than 90:

Scote greater than 90 = 92,95, 100,94

 $P10bability = \frac{4}{12} = 0.33$ 

33%