Step1: Cocate Dataset (10-15 test scores) 12 scores 76, 85,92,67,88,73,95,81,76,89,90,84 steps: calculations 1) Mean Mean = Sum of all values on moter of valges = 78+85+92+67+88+73+95+81+76+89+40+84  $=\frac{998}{12}$  - 83.17 2) Median

Arranged in ascending order
67,73,76,81,84,85,88,89.90,92,95
n=12 (even)

Median = average of 6th and 7th values

Median = 84+85

= 84.5

3) Variance

62 = Z(xi-M)2

Mean =83.17

$$(78 - 83 \cdot 17)^{2} = 26 \cdot 73$$

$$(85 - 83 \cdot 17)^{2} = 3 \cdot 34$$

$$(92 - 83 \cdot 17)^{2} = 77 \cdot 90$$

$$(67 - 83 \cdot 17)^{2} = 262 \cdot 30$$

$$(88 - 83 \cdot 17)^{2} = 23 \cdot 30$$

$$(73 - 83 \cdot 17)^{2} = 103 \cdot 30$$

$$(95 - 83 \cdot 17)^{2} = 139 \cdot 00$$

$$(81 - 83 \cdot 17)^{2} = 51 \cdot 30$$

$$(89 - 83 \cdot 17)^{2} = 51 \cdot 30$$

$$(89 - 83 \cdot 17)^{2} = 34 \cdot 00$$

$$(90 \cdot 83 \cdot 17)^{2} = 46 \cdot 70$$

$$(84 - 83 \cdot 17)^{2} = 0 \cdot 70$$

Sam = 
$$772.3$$

$$\sigma^{2} = 772.3 = 64.36$$

f) standard Deviation

$$G = \sqrt{6^2} = \sqrt{64.36} = 8.02$$

5) Probability of Score 290

2 scores are greater than 90 92,95 Total scores = 12

$$P(\pi 190) = \frac{2}{12} = 0.167$$

in perontage = 16.7%