

8D #5. $\frac{95 + 82 + 76 + 88 + x}{5} = 84$

$$341 + x = 420$$

$$x = 79$$

1P* 60, 90, 120, 150, 180

$$\bar{x} = 3(40) = 120$$

$$\sigma = 3(14.42) = 42.4$$

$$\sigma^2 = 3^2(14.42^2) = 1800$$

#16* 25, 35, 45, 55, 65

$$\bar{x} = 40 + 5 = 45$$

$$\sigma = 14.1 \text{ (no change)}$$

$$\sigma^2 = 200 \text{ (no change)}$$

One more look at variance

$$\text{Var}(X) = \underline{E(X^2)} - \underline{[E(X)]^2}$$

(No calculator) Find the variance of

$$\boxed{5, 6, 10, 11}$$

$$E(X) = \frac{5+6+10+11}{4} = \frac{32}{4} = 8$$

$$E(X^2) = \frac{25+36+100+121}{4} = \frac{282}{4}$$

$$\begin{aligned} \text{Var}(X) &= 70.5 - (8)^2 = 70.5 \\ &= 70.5 - 64 = 6.5 \end{aligned}$$

Wed. 11/1 }
Fri. 11/3 } Review

Wed 11/8 TEST

Fri 11/10 Start Calculus