eg 3, "e", etc

GOAL: DEFINE VALUES THAT SUMMIARIZE A PROBABILITY expectation DISTRIBUTION

E[X] = 0.2+1.2=2

E[x2] = \( \times \text{P(X=x)}

 $E[X - E[X]] = E[X] - E[E[X]] = E[X] \sum_{x \in X} \sum_{x \in X} e[X] = E[X] = E[X] \sum_{x \in X} e[X] = E[X] =$ 

ok, not actually hard:

a sum, : linear E[X] - E[X]

$$\sum x P(x=x) = E[(X - E[x])] = Var(x)$$

$$\frac{1}{100} \sum_{i=1}^{1} X = \frac{1}{100} \cdot \frac{100 \cdot (100-1)}{2} = \frac{100}{2} \cdot \frac{100}{2} = \frac{100}{2} = \frac{100}{2} \cdot \frac{100}{2} = \frac{10$$

down by 1