$E(X) = \sum x \cdot P(x)$

$E(X^2) = \sum x^2 P(x)$

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$V(X) = E(X^2) - [E(X)]^2$

X	P(X)	X · P(X)	
0	0.4	0	0.0
1	0.3	0.3	0.3
2	0.2	0.4	0.8
3	0.1	0.3	0.9

$E(X) = 1$

$E(2X+7) = \sum f(2x+7) \cdot P(2x+7)$

$2E(x) + 7 =$

$2(1) + 7 = 9$

$2E(x) + E7$

$V(X) = E(X^2) - [E(X)]^2$

$= 2 - 1$

$= 1$

$E(a) = a$

$E(ax) = aE(X)$

$E(ax+b) = aE(X) + b$

$V(7X+1) =$

$V(a) = 0$

$V(ax) = a^2 V(x)$

$V(ax+b) = a^2 V(X)$