# Answer on Question \#75622 - Math - Statistics and Probability Question 

It costs a bakery $\$ 6$ to bake a cake. If it sells on the first day, the bakery charges $\$ 15$. If it sells on the second day, it charges $\$ 9$. Otherwise, the cake is thrown out. The chance that a cake will sell on the first day is $65 \%$ and the chance that it will sell on the second day is $23 \%$. How much profit (or loss) will the bakery make on each cake?

Solution

| $x$ | $15-6=9$ | $9-6=3$ | $0-6=-6$ |
| :---: | :---: | :---: | :---: |
| $P(x)$ | 0.65 | 0.23 | 0.12 |

$E(X)=\sum p_{i} x_{i}=0.65 * 9+0.23 * 3+0.12(-6)=\$ 5.82$.
Answer: \$5.82.

