Consider the following gambling game, based on the outcome of the total of 2 dice:
You place a bet of $2
– if the total is a perfect square, you win $4 (get your $2 back, plus you win $4)
– if the total is 2, 6, 8 or 10, you win $1 (get your $2 back, plus you win $1)
– Otherwise, you lose your $2.

Let $X$ be the random variable which gives the amount of $ you win or lose.
Write the discrete probability distribution for $X$

\[
\begin{array}{c|c}
X & P(X = x_i) \\
\hline
\end{array}
\]

What is the mean of this distribution? Write a sentence (or two) to explain what this answer means.