

Expected Value

The expected value is the value one would expect to get if we performed a trial an infinite amount of times. Frequently this is explored through the use of games. We should note the expected value is often not a value that is actually obtainable!

$$\text{Expected Value} = E(x) = \sum x \cdot P(x)$$

In practice, this means we take each value (x), multiply it by its associated probability ($P(x)$) and sum these together.

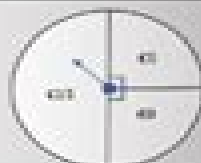
Ex. 1 A probability distribution for the random variable x is shown below. Calculate the expected value.

x	1	2	3	4
$P(x)$	$\frac{1}{8} \cdot \frac{1}{2}$	$\frac{1}{8} \cdot \frac{1}{2}$	$\frac{1}{8} \cdot \frac{1}{2}$	$\frac{1}{8} \cdot \frac{1}{2}$

NB - This distribution tells us the only possibilities for x are 1, 2, 3 and 4 and that the probability of 1 occurring is $\frac{1}{8} \cdot \frac{1}{2}$, etc.

$$E(x) = 1 \left(\frac{1}{8} \cdot \frac{1}{2} \right) + 2 \left(\frac{1}{8} \cdot \frac{1}{2} \right) + 3 \left(\frac{1}{8} \cdot \frac{1}{2} \right) + 4 \left(\frac{1}{8} \cdot \frac{1}{2} \right) = 2.5$$

Ex. 2 Consider a simple game whereby a spinner is attached to a circle with three segments where a player wins the amount shown in the sector.



From the presented angles we can note the probability of winning £15 is $\frac{1}{3}$ and the probability of winning either £5 or £0 is $\frac{2}{3}$. We can find the expected probability of this game as follows:

$$E(x) = \left(15 \times \frac{1}{3} \right) + \left(5 \times \frac{2}{3} \right) + \left(0 \times \frac{2}{3} \right) = £ \frac{20}{3} = £6.75$$

The expected value - £6.75 - is the fair value to take part in this game. If it costs more than this figure to play the game we should not play (from a purely financial perspective) whereas if it costs less than this figure to play the game we should play (again, from a purely financial perspective).

Ex. 3 The local GAA club holds a club lottery draw every week. Players need to choose 3 numbers between 1 and 20. If you match all three numbers with those drawn you win €1,000 and if you match any 2 numbers you win €100. What is a fair value to charge to play the game?

There are two options to win:

- All 3 numbers correct - the probability of this is given by $\frac{20 \times 19 \times 18}{20 \times 19 \times 18}$
- 2 numbers correct - the probability of this is given by $\frac{20 \times 19 \times 18}{20 \times 19 \times 18}$

$$\text{Therefore, the expected value is } E(x) = \left(1,000 \times \frac{1}{20 \times 19 \times 18} \right) + \left(100 \times \frac{20 \times 19 \times 18}{20 \times 19 \times 18} \right) = 45.25$$

For the probability of winning $\frac{1}{20 \times 19 \times 18}$ - we should view this as choosing three of the desired items (the three numbers which are selected in the draw) divided by the total number of choices.

For getting two numbers correct $\frac{20 \times 19 \times 18}{20 \times 19 \times 18}$ - (which implies two correct choices and one incorrect choice) we need to choose two of the desired three items and one of the undesired seventeen items, divided by the total number of choices.

Exercise - Expected Value

Question 1 A probability distribution for the random variable x is shown. Calculate the expected value.

x	0	1	2	3
$P(x)$	$\frac{1}{3} \cdot \frac{1}{2}$	$\frac{1}{3} \cdot \frac{1}{2}$	$\frac{1}{3} \cdot \frac{1}{2}$	$\frac{1}{3} \cdot \frac{1}{2}$

Question 2 A probability distribution for the random variable x is shown. Calculate the expected value.

x	0	1	2	3	4
$P(x)$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$

Question 3 A game involves five cards with the numbers 1, 2, 2, 3 and 4. A contestant wins the amount equal to the value on the card they draw.

- Show the expected value for this game is €2.40.
- If the organisers are charging €3 to enter, how much would the organisers expect to make if 100 contestants play the game?

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