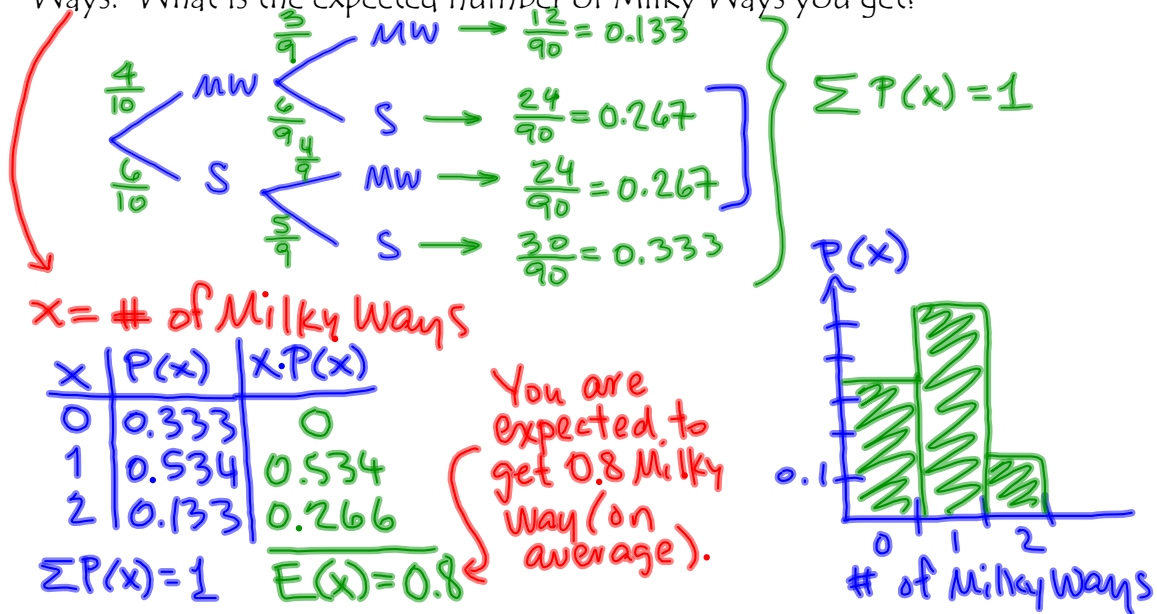


Constructing Probability Model Notes

Example 1:

A bowl of mini candy bars has 4 Milky Ways and 6 Snickers. You choose two candy bars at random. Create a Probability Model for the number of Milky Ways. What is the expected number of Milky Ways you get?



Example 2:

A woman buys a minor league baseball team for \$35,000 and is hoping to sell the team after two seasons and turn a profit. She has done a lot of research and found that if the team has two winning seasons then she can sell the team for \$105,000. If the team has one winning season and one losing season then she can sell the team for \$65,000. If the team has two losing seasons then she can sell the team for \$20,000. She thinks the team will have a 30% chance of winning the first season and a 40% chance of winning the second season. Assuming the two seasons are independent events, create a probability model and calculate her expected profit.

