Part 2: Probability Distribution Tables and Graphs

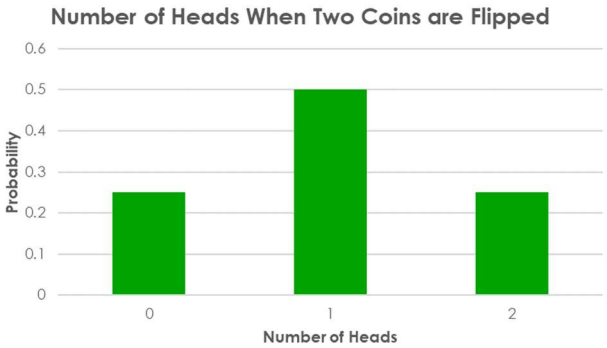
There are a few different ways we can represent probability outcomes. The first two we will look at are a table and a graph.

Let's look at the possible number of heads when two coins are flipped:

We can represent this as a table:

x	0	1	2
P(X=x)	0.25	0.5	0.25

Or as a graph:



Both of these have the same information, just represented in a different way.

Let's look at answering a couple of questions about this data:

a) What is the probability of getting no heads?
P(no heads) = 0.25

b) What is the probability of getting exactly 1 head?
P(1 head) = 0.5

c) What is the probability of getting one or more head?
P(1 or more heads) = 0.5 + 0.25 = 0.75