CONSIDER THE EXPERIMENT OF TOSSING A COIN TWICE

1. List the possible outcomes

**{HH, HT, TH, TT}**

**H = heads, T = tails**

1. Define a random variable that represents the number of heads

**X as the number of heads obtained in two tosses of a coin.**

1. Is this random variable discrete of continuous? What values would the random variable assume?

**This random variable X is a discrete random variable.**

1. Construct a probability distribution for this experiment in tabular form

|  |  |
| --- | --- |
| **Number of Heads (X)** | **Probability (P(X))** |
| **0** | **1/4** |
| **1** | **1/2** |
| **2** | **1/4** |

1. Construct a probability distribution for this experiment in graphical form