## Answer on Question #71274 – Math – Statistics and Probability Question

Let T be a random variable giving the number of heads in three tosses of a coin. List the elements of the sample space S for the three tosses of the coin and assign a value to each sample point.

## Solution

The sample space:  $S = \{HHH, HHT, HTH, THH, HTT, THT, TTH, TTT\}$ Let T be a random variable giving the number of heads. Then

T(HHH) = 3 T(HHT) = 2 T(HTH) = 2 T(THH) = 2 T(HTT) = 1 T(THT) = 1 T(TTH) = 1T(TTT) = 0

Thus, a random variable T takes on values 0, 1, 2, 3.

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