

# PROBABILITY

## EXAMPLE 1: Finding a Sample Space and Using It to Compute Simple Probabilities

Suppose we roll one fair 6-sided die with one hand and flip a fair 2-sided coin with the other hand.

An example of a simple event that might result from this procedure is getting a 6 on the die paired with heads on the coin.

Another example of a simple event is getting a 5 on the die paired with tails on the coin.

For the complete sample space we must pair every outcome from the roll of the die with every outcome from the coin flip. Let H represent heads and T represent tails. The complete sample space is {1-H, 1-T, 2-H, 2-T, 3-H, 3-T, 4-H, 4-T, 5-H, 5-T, 6-H, 6-T}

Use this sample space to compute the

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## EXAMPLE 2: Computing Probability from a Contingency Table

In a survey of a recent Statistics class at a commuter college in Florida, students were asked if they owned their own home,

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## EXAMPLE 3: Computing Probability for at Least One

The probability of an automatic window button working on a five-year-old Ford car is 0.984. A student owns a five-year-old car.

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