# **Theoretical Probability**

The theoretical probability of an event occurring is

$$\label{eq:Theoretical probability} Theoretical probability \ = \frac{\text{frequency of the event occurring}}{\text{total frequency of possible outcomes}}$$

Mutually exclusive events cannot happen at the same time.

For example, a fair die cannot land on a 3 and a 4 at the same time and a coin flip cannot land on heads and tails at the same time.

If an object (a coin, spinner, or dice for example) is described as fair, or conversely non-biased, the theoretical probability of each outcome is the same; the theoretical probability of flipping a tails on a fair coin is  $\frac{1}{2}$ , the **theoretical probability** of rolling a 2 on a fair 6-sided dice is  $\frac{1}{6}$ .

# **Theoretical Probability 11 2**

Shasha Hu

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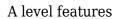
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