

Enduring Understanding

The interaction of events affects probability.

Essential Questions

How do composite events affect probability?

How are complementary events related to odds of an event?

Indicators

- 5.IM.1.1 distinguish between permutations and combinations. (5.8.1.1)
- 5.IM.1.2 apply the Fundamental Counting Principle to solve problems. (5.8.1.2)
- 5.IM.2.1 find the probability of an event that does not have equally likely outcomes. (5.8.2.1)
- 5.IM.2.2 find the probability of dependent and independent events using various methods, including constructing a sample space. (5.8.2.2)
- 5.IM.3.1 predict the probability of composite events based on the outcomes of an actual event or a simulation. (5.8.3.1)
- 5.IM.2.3 calculate the probability of complementary events.
- 5.IM.2.4 calculate the odds of a simple event and differentiate between odds and probability.