

# 10.8 Probability of Independent and Dependent Events

Now you will see the word "AND" because you are finding the probability of MORE THAN ONE event. When there is more than one event occurring, you multiply the probabilities together.

**Probabilities of More than One Event:  $P(A \text{ and } B) = P(A) \cdot P(B)$**

- **Independent Events:**
  - > Events are not related
  - > **With replacement:** whatever is picked is put back before second pick
    - Denominator stays the same
- **Dependent Events:**
  - > Events are related
  - > **Without replacement:** whatever is picked is NOT put back before second pick
    - Denominator decreases by one
- How many fractions should I multiply?
  - > You should multiply the same number of fractions as the number of objects you are choosing

*\*ALWAYS assume you pick what you want.*

**Examples: Order is Specified**

- 1) Out of a class of 20 students, your teacher chooses students at random to present their projects. What is the probability that she chooses you first, and then chooses Kim second? *\*w/o replacement*

$$P(\text{you}) \cdot P(\text{Kim})$$

$$\frac{1}{20} \cdot \frac{1}{19} = \boxed{\frac{1}{380}}$$

*\*denominator decreases by 1*

- 2) You flip a fair coin. What is the probability that it shows heads on the first flip and shows tails on the second flip? *\*denominator stays the same*

$$P(H) \cdot P(T)$$

$$\frac{1}{2} \cdot \frac{1}{2} = \boxed{\frac{1}{4}}$$

- 3) Tom has 4 navy socks and 6 black socks in a drawer. One dark morning, he randomly pulls out 2 socks. What is the probability that he will select a pair of navy socks? *total: 10 socks*

$$P(\text{navy}) \cdot P(\text{navy})$$

$$\frac{4}{10} \cdot \frac{3}{9} = \frac{12}{90} = \boxed{\frac{2}{15}}$$

*\*w/o replacement*  
*\*denominator decreases by 1*  
*\*picking same color - numerator also decreases by 1*

- 4) There are 2 glasses of root beer and 4 glasses of cola on the counter. Dave drinks two of them at random. What is the probability that he drank 2 glasses of cola? *total: 6 glasses*

$$P(\text{cola}) \cdot P(\text{cola})$$

$$\frac{4}{6} \cdot \frac{3}{5} = \frac{12}{30} = \boxed{\frac{2}{5}}$$

*\*w/o replacement*  
*\*denominator decreases by 1*  
*\*picking same flavor - numerator also decreases by 1.*

- 5) Steve reaches into a bag with 5 red marbles, 3 yellow marbles, and 2 green marbles, and randomly selects one. Then, he puts the marble back, and Sam reaches into the same bag and randomly selects a marble. What is the probability that both guys selected a yellow marble? *total: 10 marbles*

$$P(\text{yellow}) \cdot P(\text{yellow})$$

$$\frac{3}{10} \cdot \frac{3}{10} = \boxed{\frac{9}{100}}$$

*\*with replacement*  
*\*denominator stays the same*

- 6) A bowl contains 4 tangerines and 5 clementines. John randomly selects one piece of fruit, and then Pam randomly selects one of the remaining pieces of fruit. What is the probability that John selects a tangerine and Pam selects a clementine?

$$P(\text{tangerine}) \cdot P(\text{clementine})$$

$$\frac{4}{9} \cdot \frac{5}{8} = \frac{20}{72} = \boxed{\frac{5}{18}}$$

*\*w/o replacement* *\*9 total*  
*\*denominator decreases by 1*

# Independent And Dependent Probability Worksheet With Answer Key

**Shasha Hu**



**Independent And Dependent Probability Worksheet With Answer Key:**

## **Independent And Dependent Probability Worksheet With Answer Key** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Independent And Dependent Probability Worksheet With Answer Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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