

Name _____

Date _____

Probabilities of Compound Events - Guided Lesson Explanation

Explanation#1

This is a bit tricky because 2 participants minimize the possible outcomes. All outcomes are exponential beyond two participants. We can make a list and identified that there are 2 ways for the friends to win a race:

1 st	2 nd
Kevin	Bryan
Bryan	Kevin

Explanation#2

Let's look at all of the possible outcomes of three coin tosses:

Let H = Heads

Let T = Tails

TTT

TTH

THT

THH

HTT

HTH

HHT

HHH

We are only looking for 2 heads and 1 tails. They are bolded above. If the sequence doesn't matter, there are 3 different ways to get 2 heads and 1 tail.

The probability is $\frac{3}{8} = 0.375 = 37.5\%$

Explanation#3

We will write "TWO" try to identify the ways

TWO, TOW, WTO, WOT, OTW, OWT

In the way we can write the word "TWO" in six ways.

