

## Using Excel to Solve a Binomial Distribution Problem:

A study indicates that 14% of teenagers drink alcoholic beverages on a regular basis. What is the probability that in a sample of 50 teenagers, you will find that exactly 2 drink?

To solve this problem using BINOMDIST in Excel, you need the following:

- **Number\_s** is the number of successes in trials. For this problem = 2
- **Trials** is the number of independent trials. For this problem = 50
- **Probability\_s** is the probability of success on each trial. For this problem = .14
- **Cumulative** is a logical value and you indicate TRUE if you want the cumulative value or FALSE.
- Since we are looking for the exact value which is not cumulative, type in **FALSE**

**Formula Result= .017231** [Try it!]