



2. A die is weighted so that the probability of rolling a "6" is 0.42. The die is rolled 18 times.
- Find the probability that the die lands on a "6" exactly 11 times.
  - Find the probability that the die lands on a "6" either 7 or 8 times.
  - Find the probability that the die lands on a "6" no more than 5 times (*this means 5 times or fewer*).
  - Find the probability that the die lands on a "6" at least 4 times.
  - In statistics, an event is considered "**UNLIKELY**" if the probability of it occurring is less than five percent. Based on your answer to part (C), is landing a "6" on this die for no more than 5 tosses considered an **UNLIKELY** event? Explain.