

**TEST YOUR KNOWLEDGE: Binomial Distribution**

**1. You have a circular table that seats 15 people and you have 15 guests coming for dinner. How many different seating arrangements can you make for your 15 guests around the table?**

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**2. How many ways can a class consisting of 30 students select 2 people – one will be class president and the other will be class vice president.**

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**3. We know that 8% of students major in accounting. What is the likelihood that in a random sample of 40 students, you will have 7 accounting majors?**

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**4. A smart phone consists of 22 distinct parts. Each part is made in a plant that has average quality control so that only 1 out of 500 (.002) is defective. The smart phones are assembled in a plant in NYC. What is the likelihood that it will not work properly?**

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