

- (a) An urn contains 1000 balls, fifty are green and 950 are white. One ball is chosen from the urn 100 times with replacement. Use Excel (binom.dist) or MegaStat to find the probability that six or seven green balls are selected.
- (b) An urn contains 1000 balls, fifty are green and 950 are white. One ball is chosen from the urn 1000 times. Use Excel (binom.dist) or MegaStat to find the probability that between 60 and 70 of the balls, inclusive, are green.
- (c) Redo (a) and (b) again using the normal approximation using Excel (normal.dist) or MegaStat or Standard Normal Tables. How do the answers compare with the above? Are there any discrepancies? If so, please explain why they happened.

Instructions:

1. Please type your answers. Handwritten solutions will not be accepted.
2. Model the questions and discuss what hypothesis was met in order for you to model it a certain way.
3. Your solution should be completely explained in words.
4. Solve using Excel/ MegaStat. Please include your Excel/ MegaStat printouts
5. This project has to be done individually. If two projects are essentially identical, both projects will receive 0.