

Name: _____

Course & Section: _____

Electronic copies of this homework are located in D2L.

Binomial Post Class

Part 1

Watch the Video: [Binomial Post Class Activity Part 1](https://www.youtube.com/watch?v=K3vD_cOOzxk) (https://www.youtube.com/watch?v=K3vD_cOOzxk)

Part 2

Watch the Video: [Binomial Post Class Activity Part 2](https://www.youtube.com/watch?v=ysc7OBk1SVg) (https://www.youtube.com/watch?v=ysc7OBk1SVg)

1. Find $P(x > 8)$
 - a. 0.7560
 - b. 0.2440
 - c. 0.2816
 - d. 0.5256

2. Find $P(6 \leq x \leq 9)$
 - a. 0.1877
 - b. 0.1460
 - c. 0.8656
 - d. 0.2241

Part 3

Watch the Video: [Binomial Post Class Activity Part 3](https://www.youtube.com/watch?v=5MBQajVmR3M) (https://www.youtube.com/watch?v=5MBQajVmR3M)

Part 4

Watch the Video: [Binomial Post Class Activity Part 4](https://www.youtube.com/watch?v=UlrIwj_J1BE) (https://www.youtube.com/watch?v=UlrIwj_J1BE)

1. Is X a binomial random variable?
 - a. Yes
 - b. No

Part 5

Watch the Video: [Binomial Post Class Activity Part 5](https://www.youtube.com/watch?v=bsX30DMx1Ms) (https://www.youtube.com/watch?v=bsX30DMx1Ms)

1. What value should we use for the number of trials, n ?
 - a. .5
 - b. 1
 - c. 20
 - d. 100

Part 6

Watch the Video: [Binomial Post Class Activity Part 6](https://www.youtube.com/watch?v=M2-MDoQPZU8) 9 (https://www.youtube.com/watch?v=M2-MDoQPZU8)

1. What is the probability that exactly 15 students out of the 20 surveyed prefer activities? Round to 4 decimal places.
 - a. 0.9941
 - b. 0.0148
 - c. 0.9852
 - d. 0.0060
2. What is the probability that 15 or more students out of the 20 surveyed prefer activities? Round to 4 decimals.
 - a. 0.0060
 - b. 0.0207
 - c. 0.0370
 - d. 0.9793

Part 7

Watch the Video: [Binomial Post Class Activity Part 7](https://www.youtube.com/watch?v=cFHKBaJKh6E) (https://www.youtube.com/watch?v=cFHKBaJKh6E)

Part 8

Watch the Video: [Binomial Post Class Activity Part 8](https://www.youtube.com/watch?v=lLezsQQ0vc) (https://www.youtube.com/watch?v=lLezsQQ0vc)

1. Is X a binomial random variable?
 - a. Yes
 - b. No
2. What is the value of n?
 - a. $\frac{1}{3}$
 - b. 1
 - c. 20
 - d. 15
3. What is the value of p? Write as a fraction (e.g. $\frac{2}{5}$).
 - a. $\frac{1}{3}$
 - b. $\frac{2}{3}$
 - c. 1
 - d. 0
4. What is the probability that you see "Paper" fewer than 5 times? Round to 4 decimals.
 - a. 0.4041
 - b. 0.1977
 - c. 0.5852
 - d. 0.7908

Part 9

Watch the Video: [Binomial Post Class Activity Part 9](https://www.youtube.com/watch?v=VA-_piQPjmc) (https://www.youtube.com/watch?v=VA-_piQPjmc)