NAME:_____

P.I. A2.S.15: Know and apply the binomial probability formula to events involving the terms exactly, at least, and at most

1. Explain what is meant by a binomial experiment and give an example.

2. Create a binomial experiment. Assign probabilities and determine the probability of one outcome in three trials.

3. Write a probability problem for which ${}_6C_2(0.2)^4(0.8)^2$ is the solution.

[1] Answers may vary. Sample: A binomial experiment is an experiment with exactly two outcomes. For example, tossing a coin has only two possible outcomes, heads or tails.

Answers may vary. Sample: Place 5 cards in an envelope. Three say “yes” and two say “no”. A card is selected, noted, and put back. What is the probability that you will get “yes” three times?
$P(YYY) = 0.216$

[2] ”’’’