

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] 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?  
 $P(YYY) = 0.216$

[illegible]

Answers may vary. Sample: Find the probability that it will rain during four of the next six days if the probability of rain each day is 20%.