Honors Statistics	Name	
Binomial Probability Worksheet #1(Formula)	Period	Date

Set up using the binomial formula, then find the probability. Round to three significant digits.

- 1. You guess on a true/false test. Find P(3 correct in 5 guesses).
- 2. Find the probability of tossing a fair coin 20 times and getting 2 heads.
- 3. Find the probability of tossing a fair coin 20 times and getting 12 heads.
- 4. There are 40 questions for which there are 4 choices for each. Find the probability of randomly guessing 2 correct answers out of it.
- 5. There are 40 questions for which there are 4 choices for each. Find the probability of randomly guessing 20 correct answers out of it.
- 6. Find the probability of 3 successes in 6 trials, if the probability of success is 0.4.
- 7. Find the probability of 6 successes in 12 trials, if the probability of success is 0.2.
- 8. Find the probability of having not more than 2 successes in 4 trials, if the probability of success is 0.4.
- 9. Find the probability of having not more than 5 successes in 10 trials, if the probability of success is 0.75.
- 10. In a school exam, one student out of 80 fails. Determine the probability that out of 20 students picked at random, exactly 1 student fails.
- 11. A cat gives birth to a litter of 9 kittens. Find the probability of having at least 6 female kittens assuming that the probability of a kitten being female is 0.7.
- 12. The probability of Andrew's team winning any given game in a 5-game series is 0.3. What is the probability that Andrew's team will win exactly 2 games in the series?
- 13. A fair coin is tossed 5 times. What is the probability that it lands tails up exactly 3 times?
- 14. The Hiking Club plans to go camping in a State park where the probability of rain on any given day is 0.7. Find the probability that it will rain on exactly 3 of the 7 days they are there?
- 15. Gordon tosses a fair die six times. What is the probability that he will toss exactly two 5's?
- 16. The probability that Kyla will score above a 90 on a mathematics test is 4/5. What is the probability that she will score above a 90 on three of the four tests this quarter?

Answers

- 1. .313
- 2..000181
- 3. .120
- 4. .000872
- 5..000398
- 6. .276
- 7. .0155
- 8. .821
- 9. .0781
- 10. .197
- 11..730
- 12..309
- 13. .313
- 14. .0972
- 15. .234
- 16..410