

# Theoretical Probability

## Probability Word Problems

Name: \_\_\_\_\_ Date: \_\_\_\_\_

- (1) A jar contains 8 blue, 3 orange, and 4 green marbles. If you pick one without looking, what is the probability that the marble you pick will be either blue or orange?
- (2) You ask a friend to think of a number from 8 to 18. What is the probability that his number will be less than 14?
- (3) You roll a 12-sided die (having values one through 12 on its faces). What is the probability that the value of the roll will be an even number?
- (4) A gumball machine contains 12 pink gumballs, 13 green gumballs, and 19 yellow gumballs. What is the probability that the next gumball that comes out will be yellow?
- (5) Each of the letters in the word MODESTLY are on separate cards face down on the table. If you pick a card at random, what is the probability that the letter on it will fall within the range of "E" and "S" in the alphabet?
- (6) You pick one card from a standard deck. What is the probability that the card will be the five of any suit?