## PROBABILITY

## Read carefully and solve.

1. Ty and his friend play a guessing game. One picks a number between 1 and 100, inclusive, and the other tries to guess it. What is the probability of Ty guessing the same number that his friend picked?

2. Find the probability of choosing an M from a set of cards with one letter from the word MATHEMATICS written on each card. You choose a card without looking.

3. A day of the week is chosen at random. Find the probability the name of the day has six letters.

4. Find the probability that a student chosen at random from a class of 8 girls and 12 boys is a girl.

5. There are 40 jellybeans in the candy dish, twelve which are red. What is the probability of picking out a red jellybean without looking?

6. Chip put 8 blue marbles, 7 red marbles, and 5 green marbles in a bag and mixed them up. If he selects one marble from the bag without looking, what is the probability it is a green marbles?

7. Hector bought a dozen doughnuts that included six glazed, four jellyfilled, and two chocolate cake. If he reaches in the box without looking to get a doughnut, what is the probability the doughnut he picks is a jellyfilled?

## Use the spinner to answer the following.

- 8. What is the probability that the spinner will land on shaded section?
- 9. What is the probability that the spinner will land on a consonant?



- 10. What is the probability that the spinner will land on a vowel or a shaded section?
- **11.** Forrest bought 35 entries in a carnival raffle. There were 400 total entries. What is the probability that Forrest has the winning entry?

- 12. During an hour television show, there were eighteen minutes of commercials. If you turn the TV on randomly during the show, what is the probability that you turn it on during a commercial?
- 13. Find the probability of getting the number six when rolling a die.

- 14. Find the probability of picking a heart from a ordinary deck of playing cards.
- 15. Find the probability of picking a queen or a king from an ordinary deck of playing cards.

What is the probability that a card drawn from an ordinary deck of playing cards is:

16. red or a 7? 17. a spade or a jack?

18. a club and a 2?

19. the king of hearts or black

20. a face card?