Choose the best answer to each question.

- 1. A glass jar contains 5 red, 3 blue and 2 green jellybeans. If a jellybean is chosen at random from the jar, what is the probability that it is not blue?
 - A. 1/2
 - B. 3/10
 - C. 7/10
 - D. 1/5
- A number from 1 to 5 is chosen at random. What is the probability that the number chosen is not odd?
 - A. 2/5
 - B. 3/5
 - C. 0
 - D. 4/5
- 3. If a number is chosen at random from the following list, what is the probability that it is not prime? 2, 3, 5, 7, 11, 13, 17, 19
 - A. 1
 - B. 1/8
 - C. 0
 - D. 2
- 4. What is the probability of choosing a vowel from the alphabet?
 - A. 21/26
 - B. 5/26
 - C. 1/26
 - D. 5/13
- 5. Spin a spinner numbered 1 to 7, and toss a coin. What is the probability of getting an odd number on the spinner and a tail on the coin?
 - A. 3/14
 - B. 2/7
 - C. 5/14
 - D. None of the above

- 6. Four cards are chosen from a standard deck of 52 playing cards with replacement. What is the probability of choosing 4 hearts in a row?
 - A. 13/52
 - B. 1/16
 - C. 1/256
 - D. None of the above
- A nationwide survey showed that 65% of all children in the United States dislike eating vegetables. If 4 children are chosen at random, what is the probability that all 4 dislike eating vegetables? (Round your answer to the nearest percent)
 - A. 18%
 - B. 260%
 - C. 2%
 - D. None of the above
- In Europe, 88% of all households have a television. 51% of all households have a television and a VCR. What is the probability that a household has a VCR given that it has a television?
 - A. 173%
 - B. 58%
 - C. 42%
 - D. 36%
- 9. In New England, 84% of the houses have a garage and 65% of the houses have a garage and backyard. What is the probability that a house has a backyard given that it has a garage?
 - A. 77%
 - B. 109%
 - C. 19%
 - D. None of the above

- 10. A spinner has 7 equal sectors number 1 to 7. If you spin the spinner, then which of the following is a certain event?
 - A. Landing on a number less than 7
 - B. Landing on a number less than 8
 - C. Landing on a number greater than 1
 - D. None of the above
- 11. Find the range of these distances run by 6 marathon runners: 10 km, 15 km, 12 km, 14 km, 8 km, 16 km
 - A. 8 km
 - B. 6 km
 - C. 11 km
 - D. 17 km
- 12. Employees at a retail store are paid the hourly wages listed below.
 What is the range of these hourly wages? \$7.50, \$9.25, \$8.75, \$9.50, \$7.25, \$8.50
 - A. \$7.50
 - B. \$3.75
 - C. \$2.25
 - D. \$1.75
- 13. The test scores of 9 seventh grade students are listed below. Find the mode. 82, 92, 75, 91, 92, 89, 95, 100, 86
 - A. 77
 - B. 92
 - C. 95
 - D. 86

- 14. The manager of video shop recorded the number of blank tapes sold per day in 2 weeks (below). Which of the following statements is true? 132, 121, 119, 116, 130, 121, 131, 117, 119, 135, 121, 129, 119, 134
 - A. There is no mode.
 - B. The mode is 119
 - C. The mode is 131
 - D. The modes are 119 and 121
- 15. Ten earthquakes were measured using the Richter scale and their magnitudes are listed below. Which of the following statements is true? 7.0, 6.2, 7.7, 8.0, 6.4,
 - 7.2, 5.4, 6.6, 7.5, 5.9
 - A. There is no mode'
 - B. The mode is 6.4
 - C. The mode is 5.4
 - D. The data set is bimodal
- 16. A small company has limited budget for salaries. It can afford to pay an average of \$35,000 a year to its employees. If the first 5 employees are paid \$37,000, \$38,000, \$33,000, \$39,000 and \$29,000, then how much money can they pay the sixth employee without exceeding their budget?
 - A. \$38,000
 - B. \$36,000
 - C. \$34,000
 - D. \$35,000
- 17. In problem 16, what would the mean salary be if the sixth was paid \$40,000?
 - A. \$36,000
 - B. \$40,000
 - C. \$37,000
 - D. \$42,000

- 18. The mean of 5 hourly wages is\$5.95. What is the sum of these wages?
 - A. \$41.00
 - B. \$35.00
 - C. \$29.75
 - D. \$32.50

- 19. Find the range of these race times given in seconds: 7.3s, 8.4s, 8.0s, 7.5s, 9.4s, 8.7s, 9.1s
 - A. 2.1 s.
 - B. 3.0 s.
 - C. 7.0 s.
 - D. 1.2 s.
- 20. The mean of a set of numbers is 123. The sum of the numbers is 2,214. How many numbers are in the set?
 - A. 12
 - B. 16
 - C. 18
 - D. 20

Answer Key

- 1. C
- 2. A
- 3. C
- 4. B
- 5. B
- 6. C
- 7. A
- 8. B
- 9. A
- 10. B
- 11. A
- 12. C
- 13. B
- 14. D
- 15. A
- 16. C
- 17. A
- 18. C
- 19. B
- 20. C