Choose the best answer to each question.

1. Which of the following is the sample space when 2 coins are tossed?
   A. {H, T, H, T}
   B. {H, T}
   C. {HH, HT, TH, TT}
   D. None of the above

2. A pair of dice is rolled. What is the probability of getting a sum of 2?
   A. 1/6
   B. 1/3
   C. 1/36
   D. 1/18

3. In a class of 30 students, there are 17 girls and 13 boys. Five are ***A*** students and three of these students are girls. If a student is chosen at random, what is the probability of choosing a girl or an ***A*** student?
   A. 19/30
   B. 11/15
   C. 17/180
   D. 1

4. In the United States, 43%of people wear a seat belt while driving. If two people are chosen at random, what is the probability that both of them wear a seat belt?
   A. 86%
   B. 18%
   C. 57%
   D. 60%

5. Three cards are chosen at random from a deck without replacement. What is the probability of getting a jack, a ten and a nine in order?
   A. 8/16,575
   B. 1/2197
   C. 6/35,152
   D. 3/52

6. A city survey found that 47% of teenagers have a part time job. The same survey found that 78% plan to attend college. If a teenager is chosen at random, what is the probability that the teenager has a part time job and plans to attend college?
   A. 60%
   B. 63%
   C. 37%
   D. 22%

7. In a shipment of 100 televisions, 6 are defective. If a person buys two televisions from that shipment, what is the probability that both are defective?
   A. 3/100
   B. 9/2500
   C. 1/330
   D. 3/5

8. In a school, 14% of students take drama and computer classes, and 67% take drama class. What is the probability that a student takes computer class given that the student takes drama class?
   A. 81%
   B. 21%
   C. 53%
   D. 33%

9. The weights of 9 students, measured in pounds, are recorded below. Find the mean weight. 135, 120, 116, 119, 121, 125, 135, 131, 123
   A. 130
   B. 125
   C. 115
   D. 112

10. What is the range of weights given in problem 9?
    A. 12
    B. 118
    C. 19
    D. 38

11. What is the mode of the weights in problem 9?
    A. 135
    B. 123
    C. 16
    D. 119

12. What is the median of the weights given in problem 9?
    A. 120
    B. 123
    C. 131
    D. 119

13. The mean price of 5 items is $7.00. The prices of the first four items are $6.50, $8.00, $5.50 and $6.00. How much does the fifth item cost?
    A. $12.00
    B. $ 7.50
    C. $9.00
    D. $5.00

14. The range of a set of numbers is 1,362. The greatest number is 2,172. What is the least number?
    A. 810
    B. 750
    C. 1050
    D. 435

15. The mean of a set of 7 numbers is 13. What is the sum of the numbers?
    A. 91
    B. 72
    C. 101
    D. 182

16. Find the mode of the following test scores: 89, 78, 91, 82, 75, 89, 84, 95, 89, 93
    A. 59
    B. 89
    C. 109
    D. 93

17. The mean of a set of data is 174.25 and the sum of the data is 1, 394. How many numbers are in the set?
    A. 6
    B. 11
    C. 8
    D. 12

18. The grade point averages of 10 students are listed below. Find the median grade point average: 3.15, 3.62, 2.54, 2.81, 3.97, 1.85, 1.93, 2.63, 2.50, 2.80
    A. 2.715
    B. 2.015
    C. 3.501
    D. 2.901

19. Larry's math test grades are 87, 93, 89 and 85. What grade must he get on the fifth test in order to get a mean of 90 for the term?
    A. 77
    B. b 96
    C. 92
    D. 88

20. A student is chosen at random from a class of 16 girls and 14 boys. What is the probability that the student chosen is not a girl?
    A. 8/15
    B. 7/15
    C. 1
    D. 1/5

Answer Key

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