Applying Statistics
Worksheet 1

Choice *E*, in multiple-choice questions, is always: *I request help from the teacher*.

You may mark E in addition to one other choice if you think that you have the right answer to the question but you do not feel that you have a complete understanding of the problem.

Your teacher will decide whether to use the two-point or four-point scoring rubric for problems that use numbers, pictures, or words to justify/explain your answer(s). You may request help for these questions, too. Write the word "teacher" by your answer(s).

Use the chart for exercises #1-#3.

Etna High's basketball team recorded the following statistics when playing Circleville High on November 29, 1965.

Players	Points
Alf Frisky	18
Sam Awful	10
Jeremy Handsome	14
Scooter Doll	5
Peter Wolfe	16
Michael Malady	2
Tim Mantis	4
Sal Monella	3
Steve Board	1
Joe Schmoe	1

1. What is the mode?

   A. 5
   B. 1
   C. 4
   D. 3
   E. Teacher

2. What is the median?

   A. 4
   B. 5
   C. 4.5
   D. 1
   E. Teacher

3. What is the mean?

   A. 74 B. 9 C. 7.4 D. 9.2 E. Teacher

4. A bag or marbles suddenly appeared at Carter's feet as he searched Etna High. The bag had 12 red marbles, 15 blue marbles, and 13 green marbles. What is the probability of not choosing a red marble when picking one marble from this bag?

   A. $\frac{1}{2}$ B. $\frac{7}{10}$ C. $\frac{3}{10}$ D. $\frac{3}{4}$ E. Teacher

5. Chris reads a mean value of three books every week. She reads six books during the first week of vacation, two books the second week, and one book during the third week. If she wants to maintain the mean value of reading three books, how many books must she read during the fourth week?

   A. 3 B. 2 C. 1 D. 4 E. Teacher



6. Carter has 20 coins in his pocket. There are five nickels, ten dimes, and five quarters. Ignoring the size of the coins and randomly choosing one coin in the pocket, what is the probability of getting a nickel?

A. $\frac{1}{2}$ B. $\frac{10}{15}$ C. $\frac{1}{4}$ D. $\frac{1}{1}$ E. Teacher

7. A jar contains only red, white, and blue marbles. What is the probability of drawing a white or red or blue marble on a single draw?

A. $\frac{1}{3}$ B. 1 C. 0 D. $\frac{2}{3}$ E. Teacher

8. In exercise #7, what is the probability of drawing a green marble on a single draw?

A. $\frac{1}{3}$ B. 1 C. 0 D. $\frac{2}{3}$ E. Teacher

9. A bag contains three marbles of each color: red, green, and blue. From the nine marbles, a marble is drawn and seen to be red. The red marble is replaced. What is the probability of drawing a red marble on the next draw?

A. 3 B. $\frac{1}{3}$ C. $\frac{2}{3}$ D. 1 E. Teacher

10. A jar contains two red, five green, and four blue marbles. A red marble is randomly drawn from the container and not replaced. What is the probability of drawing a red marble on the next draw?

A. $\frac{1}{5}$ B. $\frac{10}{11}$ C. $\frac{1}{10}$ D.0 E. Teacher