06-02-Sample Quiz-Basic Probability

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. **Classic Probability**
   What is the approximate Probability of drawing a Red Face Card from a standard deck of shuffled cards?
   
   a. 23.1%  
   b. 19.2%  
   c. 15.4%  
   d. 11.5%

2. **Classic Probability**
   What is the probability of spinning the spinner and the arrow landing on the number ‘2’?
   
   a. \(\frac{1}{4}\)  
   b. \(\frac{1}{2}\)  
   c. \(\frac{1}{8}\)  
   d. \(\frac{3}{8}\)
3. **Classic Probability**
   Alex went bowling. He managed to get 3 strikes after 15 attempts. If you were to suggest the probability that he gets a strike on his next attempt, what type of probability would you be using?

   a. Subjective Probability  
   b. Empirical Probability  
   c. Theoretical Probability  
   d. Authentic Probability

4. **Classic Probability**
   A mechanic tells a customer that replacing the tensioner on the timing belt has about an 80% chance of fixing the problem with the car. What type of probability is the mechanic using?

   a. Subjective Probability  
   b. Empirical Probability  
   c. Theoretical Probability  
   d. Authentic Probability

5. **Continuous Probability**
   A repair person is scheduled to be at your apartment between 9:00am to 12:00pm but you have to leave at 11:30 to help out a friend. If the repair person is equally likely to be at your apartment any time during the appointment time, what is the probability that you will be there?

   a. 16.7%  
   b. 50%  
   c. 83.3%  
   d. 91.2%
6. **Complements**

What is the complement of event of spinning the spinner to land on an even number?

- a. The spinner landing to 2, 4, 6, or 8.
- b. The spinner landing on 1, 3, 5, or 7.
- c. The spinner landing on 1, 2, 3, or 4.
- d. The spinner landing on 5, 6, 7, or 8.