Homework (Online Learning Day 1)

Name: _____ **Date:** _____

1. Sara is playing a board game. The probability that Sara will score a point on her next turn is $\frac{1}{3}$. Which statement describes the probability that Sara will score a point on her next turn?

   A. likely B. certain C. unlikely D. impossible

2. Which number represents the probability of an event that is very likely to occur?

   A. 0.12 B. 1.3 C. 0.89 D. 0.09

3. Which event is *most* likely to occur?

   A. flipping a fair coin, with sides labeled heads and tails, and the coin landing on tails

   B. choosing a marble out of a bag, with nine blue marbles and one red marble, and the marble being red

   C. rolling a fair number cube, with faces labeled one to six, and the cube landing on a number less than six

   D. spinning the arrow on a spinner, with four equal sectors labeled one to four, and the arrow landing on a number greater than one

4. Leanne collects data throughout the basketball season and uses these data to determine the probabilities of different teams playing in the league championship game. The probabilities for her four favorite teams playing in the championship game are shown below.

   - Tigers: $P = \frac{2}{3}$
   - Redbirds: $P = \frac{4}{5}$
   - Bulldogs: $P = \frac{3}{8}$
   - Titans: $P = \frac{1}{2}$

   Which of these teams is *least likely* to play in the championship game?

   A. Tigers B. Redbirds C. Bulldogs D. Titans

5. A passenger train has tickets available for 12 window seats and 8 aisle seats. The next person to buy a ticket will be randomly assigned to one of those seats. What is the probability that the next person will be assigned to an aisle seat?

   A. $\frac{1}{8}$ B. $\frac{2}{5}$ C. $\frac{1}{2}$ D. $\frac{2}{3}$