Probability

With replacement:

John plays on a basketball team for his school. The probability that he scores 30 points in any given game is 2/8, the probability that he scores 15 points in any given game is ⅖. Draw a tree diagram to illustrate the information and find the probability that:

1. He scores 30 points in consecutive games
2. He scores 30 points in a game and then 15 points in a game

Without replacement:

A baseball team consists of 15 players each having a batting average ranging from .290-.305. Three baseball players are chosen at random from the team to play on an all stars team. Each player is not replaced. Find the probability that:

1. All three players have the 3 lowest average.

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