1. You and seven other people are on the basketball team. The coach is making starting 5 player lineups. What is the probability that you get to start?

- 2. There are 7 red marbles, 2 blue marbles, and 11 green marbles in a jar. You reach into the jar and pull out 2 marbles.
 - a. What is the probability that you select 2 red marbles?

- b. What is the probability that you select a blue and a green marble?
- 3. You are drawing cards from a standard 52 card deck:
 - a. What is the probability that you select any king followed by any ace?
 - b. What is the probability that you select a king and an ace in any order?

c. Which probability is greater? Why?

- 4. You roll two 6-sided number cubes and add the result.
 - a. What is the probability of rolling a number that is greater than 7?

b. What is the probability of rolling a number that is not a 7?

- c. What is the probability of rolling either a 9 or a 10?
- d. What is the probability of rolling a 9 and a 10?

5. Can you have a probability that is greater than one? Explain.