Name _____ Date _____ Class _____

Practice A
Independent and Dependent Events

Find each probability.

1. Hal is tossing a quarter.

   a. What is the probability he will toss heads?   _____

   b. What is the probability he will toss tails?   _____

   c. What is the probability he will toss heads and then tails?   _____

2. Hal tosses a quarter three times. What is the probability the
   result will be tails each time?   _____

3. Katie rolls a 1–6 number cube twice. What is the probability
   she will roll an odd number and then an even number?   _____

4. Katie rolls the 1–6 number cube three times. What is the
   probability that the result will be a 3 each time?   _____

There are 3 apples and 5 oranges in a bag. Determine each probability.

5. Selecting 2 apples when they are chosen at random
   without replacement   _____

6. Selecting an orange, then an apple when they are chosen
   at random without replacement   _____

**A student must have a B average or better for all courses to qualify
for any athletic team at Jefferson High School. The table below shows
the distribution of students' grades in three sports at the school.**

Sport	Students with an A Average	Students with a B Average
Field hockey	15	4
Basketball	7	13
Football	2	22

An athlete is randomly selected. Find each probability in decimal form.

7. The student is a field hockey player with a B average.   _____

8. The student has an A average and plays football.   _____

9. The student has a B average and does NOT play football.   _____

**There are 4 green marbles and 3 white marbles in a bag. A white marble is
randomly selected and not replaced. Then a green marble is randomly selected.**

10. Are these events dependent or independent?   _____

11. What is the probability of this event occurring?   _____

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