NAME _____ DATE _____

Module 20 Solving Problems Using Probability, Statistics, and Discrete Math
Lesson 3 Solving Advanced Probability Problems

guided notes

Lesson Objectives

- Find the probability of independent events.
- Find the probability of dependent events.

Two events are _____ events if the occurrence of one event does not affect the probability of the other.

For independent events A and B, P(A and B) = _____

1. A coin is tossed, and a fair die is rolled. Find the probability of getting heads and rolling an even number. _____

2. Two letters from the word "apple" are selected at random *with* replacement. What is the probability of selecting two "p's"? _____

_____ events are events in which the occurrence of one event does affect the probability of the other.

For dependent events A and B, P(A then B) = _____

3. The yearbook staff randomly picks pictures from a box for a slide show presentation for the senior class. The box contains 25 color photos and 50 black and white photos. What is the probability of getting a black and white photo and then a color photo if the first photo is not replaced? _____

4. Two letters from the word "apple" are selected at random *without* replacement. What is the probability of selecting two "p's"? _____