Practice A 11.5 For use with the lesson "F

For use with the lesson "Find Probabilities of Independent and Dependent Events"

For exercises 1 and 2, tell whether the events are *independent* or *dependent*.

- **1.** Randomly choosing a oatmeal cookie, and then a peanut butter cookie from a container of cookies
- **2.** Drawing the name "Sally" from a hat and replacing it, and then drawing the name "Malcolm" from the hat
- **3.** Give an example of a pair of independent events.
- 4. Give an example of a pair of dependent events.

Events A and B are independent. Find P(A and B).

5.	P(A) = 0.6	6.	P(A) = 0.3	7.	P(A) = 0.22
	P(B) = 0.4		P(B) = 0.15		P(B) = 0.4

Events A and B are dependent. Find P(A and B).

8.	P(A) = 0.13	9.	P(A) = 0.16	10.	P(A) = 0.25
	P(B given A) = 0.4		P(B given A) = 0.35		P(B given A) = 0.54

- **11.** A different letter is written on ten sheets of paper and placed in a stack. Describe a way to randomly choose one of the sheets of paper, and then another, so that the events are independent.
- **12.** Tiedra has a desk organizer that contains 6 black pens and 8 blue pens. She randomly chooses a pen, and does not replace it. Then, she randomly chooses another pen. Find the probability that both pens are black.
- **13.** Allen randomly chooses a ball from a storage cart that holds 5 red balls, 6 yellow balls, and 4 green balls, and then places the ball back in the cart. Then, he chooses a second ball. Find the probability that the first ball is red, and the second ball is green.
- **14.** Jeans Clinton is shopping for jeans in a clothing store. On one rack, there are 7 pairs of relaxed fit jeans, 11 pairs of bootcut jeans, and 14 pairs of slim fit jeans. Clinton randomly chooses a pair of jeans without replacing them. Then, he randomly chooses another pair of jeans. Find the probability that both pairs of jeans are slim fit.