

1. There are 7 blue pens, 3 black pens, and 2 red pens in a drawer. If you select three pens at random with no replacement, what is the probability that you will select a blue pen, then a black pen, then another blue pen?

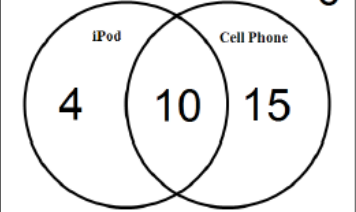
2. Tammy’s mom is baking cookies for a bake sale. When Tammy comes home, there are 22 chocolate chip cookies, 18 sugar cookies, and 15 oatmeal cookies on the counter. Tammy sneaks into the kitchen, grabs a cookie at random, and eats it. Five minutes later, she does the same thing with another cookie. What is the probability that neither of the cookies was a chocolate chip cookie?

3. Fill in the totals on the two-way table and use it to calculate the following probabilities.

	Library	Outside	Home	Totals
Freshmen	20	5	15	
Seniors	16	8	26	
Totals				

a) $P(\text{Home})$	b) $P(\text{Senior} \cap \text{Home}) =$
c) $P(\text{Home}   \text{Senior})$	d) $P(\text{Senior}   \text{Home})$
e) $P(\text{Freshman}   \text{Outside})$	f) $P(\text{Library}   \text{Senior})$

4. Use the Venn Diagram below that shows the counts of students in Miss K’s 3<sup>rd</sup> period that have an iPod or a Cell Phone to answer the following questions.

<p>Miss K's 3rd Period <span style="float: right;">6</span></p> 	<p>a. What is the probability of having both an iPod and a Cell Phone?</p>	<p>b. What is the probability of having a Cell Phone, given the student has an iPod?</p>
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