

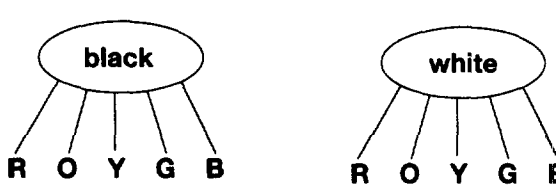
Another Look

For use with Lesson 3-12.

Make an Organized List

When you need to find how many different combinations are possible, drawing a picture or making an organized list are good strategies to use.

José has 5 sweaters—red, orange, yellow, green, blue—and 2 pairs of jeans—black, white. How many different combinations can he make?

Picture	List										
	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">B-R</td> <td style="width: 50%;">W-R</td> </tr> <tr> <td>B-O</td> <td>W-O</td> </tr> <tr> <td>B-Y</td> <td>W-Y</td> </tr> <tr> <td>B-G</td> <td>W-G</td> </tr> <tr> <td>B-B</td> <td>W-B</td> </tr> </table>	B-R	W-R	B-O	W-O	B-Y	W-Y	B-G	W-G	B-B	W-B
B-R	W-R										
B-O	W-O										
B-Y	W-Y										
B-G	W-G										
B-B	W-B										
<p>10 combinations</p>											

1. List all the ways you can make \$30 using at least one of each of the following bills: \$1 bill, \$5 bill, \$10 bill. How many combinations are there?

2. Dustin plans to take 3 jackets and 5 shirts on a trip. How many different outfits can he make from these choices?

3. Darren knows there are 18 black socks and 30 white socks in his drawer, but he does not want to turn on the light and wake his sleeping brother. What is the least number of socks he has to take out to be sure that he has a matching pair?

4. Alyssa, Ian, and Krystal will be appointed as officers of their school's Student Government Organization. The 3 positions are president, vice president, and secretary. How many different possibilities are there? Use the chart below.

	Students' Names					
President						
Vice President						
Secretary						