Worksheet 12-8 ** Compound Probability

You spin a spinner that has 12 equal-sized sections numbered 1 to 12. Find each probability.

1. <i>P</i> (3 or 4)	2. <i>P</i> (even or 7)
3. <i>P</i> (even or odd)	4. <i>P</i> (multiple of 3 or odd)
5. <i>P</i> (multiple of 2 or multiple of 3)	6. $P(\text{less than 5 or greater than 9})$
You roll a red number cube and a blue number cube. Find each probability.	
7. <i>P</i> (red 2 and blue 2)	8. <i>P</i> (red odd and blue even)
9. <i>P</i> (red greater than 2 and red 4)	10. <i>P</i> (red odd and blue less than 4)
11. The probability that Bob will make a free throw is $\frac{2}{5}$. What is the probability that Bob will make his next two free throws?	
You choose a marble at random from a bag co green marbles. You replace the marble and the	
6	
green marbles. You replace the marble and the	en choose again. Find each probability.
green marbles. You replace the marble and the12. <i>P</i>(both blue)	en choose again. Find each probability. 13. <i>P</i> (both red)
 green marbles. You replace the marble and the 12. <i>P</i>(both blue) 14. <i>P</i>(blue then green) 16. <i>P</i>(green then red) 	 en choose again. Find each probability. 13. P(both red) 15. P(red then blue) 17. P(both green) aning 2 tiles with X, 6 tiles with Y, and 4 tiles
 green marbles. You replace the marble and the 12. P(both blue) 14. P(blue then green) 16. P(green then red) You choose a tile at random from a bag contact 	 en choose again. Find each probability. 13. P(both red) 15. P(red then blue) 17. P(both green) aning 2 tiles with X, 6 tiles with Y, and 4 tiles

- **22.** *P*(both Z) **23.** *P*(Y then Z)
- **24.** There are 12 girls and 14 boys in math class. The teacher puts the names of the students in a hat and randomly picks one name. Then the teacher picks another name without replacing the first. What is the probability that both students picked are boys?