Compound Probability

You spin a	spinner that h	as 12 equal-sized	I sections numbere	d 1 to 12.	Find each	probability.

1. *P*(3 or 4)

2. *P*(even or 7)

3. *P*(even or odd)

4. *P*(multiple of 3 or odd)

5. *P*(odd or multiple of 5)

6. *P*(less than 5 or greater than 9)

7. P(even or less than 8)

8. *P*(multiple of 2 or multiple of 3)

9. *P*(odd or greater than 4)

10. *P*(multiple of 5 or multiple of 2)

You roll a red number cube and a blue number cube. Find each probability.

11. *P*(red 2 and blue 2)

12. *P*(red odd and blue even)

13. *P*(red greater than 2 and red 4)

14. P(red odd and blue less than 4) **15.** P(red 1 or 2 and blue 5 or 6)

16. *P*(red 6 and blue even)

17. The probability 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 containing 3 blue marbles, 5 red marbles, and 2 green marbles. You replace the marble and then choose again. Find each probability.

18. *P*(both blue)

19. *P*(both red)

20. *P*(blue then green)

21. *P*(red then blue)

22. *P*(green then red)

23. P(both green)

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?