Name _____ Date _____

Practice Worksheet 13-5

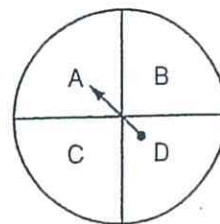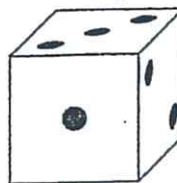## Probability of Compound Events

A die is rolled and the spinner is spun. Find each probability.

1. $P(1 \text{ and } A)$

2. $P(\text{odd and } B)$

3. $P(\text{composite and } C)$

4. $P(\text{prime and } D)$

5. $P(1 \text{ and } E)$

6. Why are these independent events?

In a bag there are 3 red marbles, 2 yellow marbles, and 1 blue marble. Once a marble is selected, it is not replaced. Find the probability of each outcome.

7. a red marble and then a yellow marble

8. a blue marble and then a yellow marble

9. a red marble and then a blue marble

10. any color marble except yellow and then a yellow marble

11. a red marble three times in a row

In a bag there are 3 red marbles, 2 yellow marbles, and 1 blue marble. After a marble is selected, it is replaced. Using this new situation, find the probability of each outcome listed above.

12. Exercise 7

13. Exercise 8

14. Exercise 9

15. Exercise 10

16. Exercise 11

Each spinner is spun once. Find each probability.

17. 2 and B

18. even number and C

19. odd number and vowel

20. prime number and D