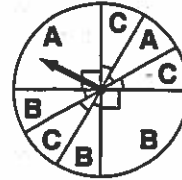


Practice 5-8

Ratios and Probability

You spin the spinner at the right. Find each probability.

1. $P(A)$ _____
2. $P(B)$ _____
3. $P(C)$ _____
4. $P(A \text{ or } B)$ _____
5. $P(B \text{ or } C)$ _____
6. $P(A, B, \text{ or } C)$ _____



A bag of uninflated balloons contains 5 red, 9 blue, 16 yellow, and 8 green balloons. A balloon is drawn at random. Find each probability.

7. $P(\text{red})$ _____
8. $P(\text{blue})$ _____
9. $P(\text{yellow})$ _____
10. $P(\text{green})$ _____
11. What is the probability of picking a balloon that is not yellow?

12. What is the probability of picking a balloon that is not red?

Solve.

13. a. You are a volunteer dog walker at the local animal shelter. Of the 413 dogs housed at the shelter this week, three are basset hounds. If you are assigned to walk a dog at random, what is the probability that you will walk a basset hound?

- b. On Wednesday morning, one basset hound and 14 other dogs are adopted. Find the probability that one of the remaining dogs is a basset hound.

14. A box contains purple, green, and red pens. If you randomly select a pen, $P(\text{red}) = 0.36$. Find $P(\text{purple or green})$. If there are 150 pens in the box, how many of the pens are red?

Puzzle 5-8

Ratios and Probability

Study the table. Find the probability of selecting a white marble from each of the buckets described. Use your answers to solve the puzzle.

Bucket	Black Marbles	White Marbles
1	15	9
2	12	9
3	15	12
4	18	12
5	18	6
6	18	3
7	20	10
8	15	3

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C. $\frac{2}{5}$

O. $\frac{1}{4}$

S. $\frac{1}{6}$

O. $\frac{3}{8}$

U. $\frac{3}{7}$

T. $\frac{4}{9}$

E. $\frac{1}{3}$

M. $\frac{1}{7}$

Probability is equal to the number of favorable _____ divided
 by the number of possible _____

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

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