Lesson 1 Homework Practice

Probability of Simple Events

The spinner shown is spun once. Find each probability. Write each answer as a fraction, a decimal, and a percent.
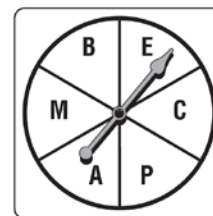
1. $P(C)$ $\dfrac{1}{6}$ 0.17 17%

2. $P(G)$ 0, 0.0, 0%

3. $P(M \text{ or } P)$ $\dfrac{1}{3}$ 0.33 33%

4. $P(B, E, \text{ or } A)$ $\dfrac{1}{2}$ 0.5 50%

5. $P(not \text{ vowel})$ $\dfrac{2}{3}$ 0.67 67%

6. $P(not \text{ M})$ $\dfrac{5}{6}$ 0.83 83%

Eight cards are marked 3, 4, 5, 6, 7, 8, 9, and 10 such that each card has exactly one of these numbers. A card is picked without looking. Find each probability. Write each answer as a fraction, a decimal, and a percent.

7. $P(9)$ $\dfrac{1}{8}$ 0.125, 12.5%

8. $P(3 \text{ or } 4)$ $\dfrac{1}{4}$ 0.25, 25%

9. $P(\text{greater than 5})$ $\dfrac{5}{8}$ 0.625, 62.5%

10. $P(\text{less than 3})$ 0, 0.0, 0%

11. $P(\text{odd})$ $\dfrac{1}{2}$ 0.5, 50%

12. $P(4, 7, \text{ or } 8)$ $\dfrac{3}{8}$ 0.375, 37.5%

13. $P(not \text{ 6})$ $\dfrac{7}{8}$ 0.875, 87.5%
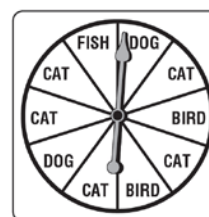
14. $P(not \text{ 5 and } not \text{ 10})$ $\dfrac{3}{4}$ 0.375, 37.5%

The spinner is spun once. Write a sentence stating how likely it is for each event to happen. Justify your answer.

15. fish $\dfrac{1}{10}$ .1 10%

16. cat $\dfrac{5}{10}$ .5 50%

17. bird, cat, or fish $\dfrac{8}{10}$ .8 80%

18. PLANTS Of the water lilies in the pond, 43% are yellow. The others are white. A frog randomly jumps onto a lily. Describe the complement of the frog landing on a yellow lily and find its probability.

$\dfrac{57}{100}$ 0.57 57%