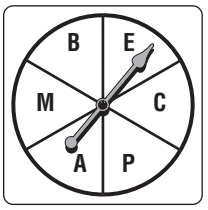
NAME _____ DATE _____ PERIOD _____

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.

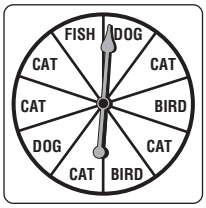


1. P(C) $\frac{1}{6}$, ≈0.17, ≈17%
2. P(G) 0, 0.0, 0%
3. P(M or P) $\frac{1}{3}$, ≈0.3, ≈33%
4. P(B, E, or A) $\frac{1}{2}$, 0.5, 50%
5. P(*not* vowel) $\frac{2}{3}$, ≈0.7, ≈67%
6. P(*not* M) $\frac{5}{6}$, ≈0.83, ≈83%

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) $\frac{1}{8}$, 0.125, 12.5%
8. P(3 or 4) $\frac{1}{4}$, 0.25, 25%
9. P(greater than 5) $\frac{5}{8}$, 0.625, 62.5%
10. P(less than 3) 0, 0.0, 0%
11. P(odd) $\frac{1}{2}$, 0.5, 50%
12. P(4, 7, or 8) $\frac{3}{8}$, 0.375, 37.5%
13. P(*not* 6) $\frac{7}{8}$, 0.875, 87.5%
14. P(*not* 5 and *not* 10) $\frac{3}{4}$, 0.75, 75%

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



15. fish **Spinning a fish is not likely since the probability is $\frac{1}{10}$ or 10%.**
16. cat **The chances of spinning a cat or not spinning a cat are equally likely since the probability of spinning a cat is 50%.**
17. bird, cat, or fish **Spinning a bird, cat, or fish is very likely since the probability is 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.
The complement of the frog landing on a yellow lily is landing on a white lily. The probability of the complement is $\frac{57}{100}$, 0.57, or 57%.