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.
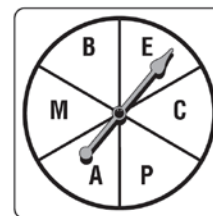
1. P(C) 1/6,.16,16%

2. P(G) 0/6,.0,0%

3. P(M or P) 2/6 .3,30%

4. P(B, E, or A) 3/6 =1/2 .3 30%

5. P(*not* vowel)
            4/6,6,6%

6. P(*not* M) 5/6,83,83%

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) 1/8,.125,12.5%

8. P(3 or 4) 2/8,0.25,25%

9. P(greater than 5) 5/8,.625,62.5%

10. P(less than 3) 0/8,.0,0%

11. P(odd) 4/8 0.5,50%

12. P(4, 7, or 8) 3/8 0.375,37.5%

13. P(*not* 6) 7/8,.875,37.5%

14. P(*not* 5 and *not* 10) 6/8,.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 there would be a 10% chance that it will land on the fish
    p(fish)1/10

16. cat
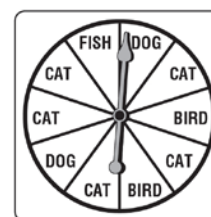   there is 50% chance it will land on the cat
                    p(cat)5/10

17. bird, cat, or fish
    there is a 80% chance that it will land on bird cat or fish
                p(bird cat or fish)8/10

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.