Theoretical Probability Practice

For Exercises 1-12, you have six tiles numbered 1 through 6. Two of the tiles are red, three of the tiles are purple, and one of the tiles is green. Find the theoretical probability of the following events:

- 1. P(red)
- 2. P(purple)
- 3. P(2)
- 4. P(red or green)
- 5. P(1 or 6)
- 6. P(white)
- 7. P(even)
- 8. P(not red)
- 9. P(7)
- 10. P(even or odd)
- 11. P(not green)
- 12. P(less than 3)

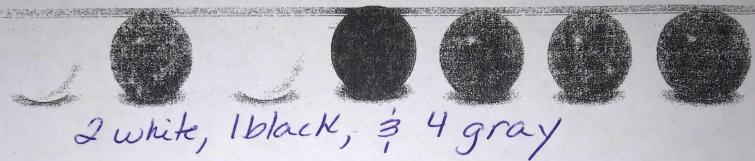
Suppose you roll a 6-sided number cube. Find each probability.

- 13. P(5)
- 14. P(8)
- 15. P(1 or 2)
- 16. P(not 6)
- 17. P(less than 5)
- 18. P(4 or higher)

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Probability

The marbles pictured below are gray, white, and black. They are placed in a bag and one is drawn at random.



- 1. Which color marble is least likely to be drawn from the bag?
- 2. What is the probability of drawing the black marble from the bag?
- 3. What is the probability of drawing a gray marble?
- 4. What is the probability of the drawing a white marble?
- 5. What is the probability of drawing a marble that is not white?
- 6. Would you be more likely to draw a marble that is not black or a marble that is not gray? Explain your answer.

7. If three more black marbles were added to the bag, what would be the probability of drawing a black marble?