Name: _____

Probability

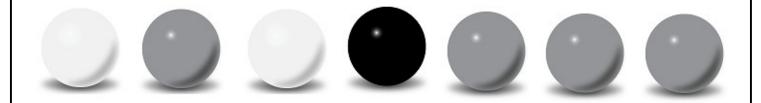**The marbles pictured below are gray, white, and black. They are placed in a bag and one is drawn at random.**

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? _____

ANSWER KEY

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? **black**

2. What is the probability of drawing the black marble from the bag? **1 out of 7**

3. What is the probability of drawing a gray marble? **4 out of 7**

4. What is the probability of the drawing a white marble? **2 out of 7**

5. What is the probability of drawing a marble that is not white? **5 out of 7**

6. Would you be more likely to draw a marble that is not black or a marble that is not gray? Explain your answer.

    You'd be more likely to draw a marble that is not black. There is only one black marble and 6 that are not black. You have a 3 out of 7 chance of drawing a non-gray marble. marble. You have a 6 out of 7 chance of drawing a marble that is not black.

7. If three more black marbles were added to the bag, what would be the probability of drawing a black marble? **4 out of 10**