LESSON 5-1

Probability

Practice and Problem Solving: A/B

Determine the probability of each event. Write *impossible, unlikely, as likely as not, likely,* or *certain*. Then, tell whether the probability is 0, close to 0, $\frac{1}{2}$, close to 1, or 1.

1. randomly picking a blue card from a bag containing all blue cards

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2. rolling an odd number on a number cube containing numbers 1 through 6

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3. picking a red marble from 4 white marbles and 7 green marbles
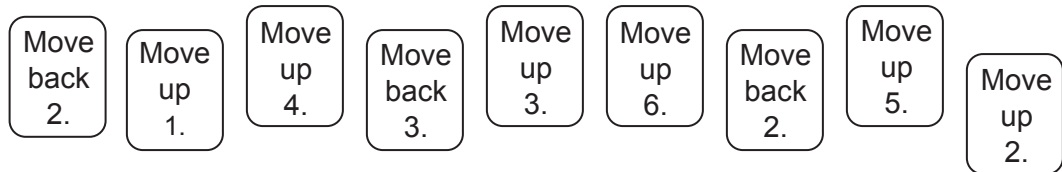
   _____

Find each probability. Write your answer in simplest form.

4. A bag holds 6 tiles: 2 lettered and 4 numbered. Without looking, you choose a tile. What is the probability of drawing a number? _____

5. The names Phil, Angelica, Yolanda, Mimi, and Ed are on slips of paper in a hat. A name is drawn without looking. What is the probability of **not** drawing Ed? _____

6. A standard deck of cards contains 13 of each suit: red hearts, red diamonds, black clubs, and black spades. What is the probability of drawing a red card without looking? _____

A board game includes the 9 cards below.

| Move back 2. | Move up 1. | Move up 4. | Move back 3. | Move up 3. | Move up 6. | Move back 2. | Move up 5. | Move up 2. |

7. Mia says the probability of moving back is the same as the probability of moving up. Is she correct? What is the probability of moving back? Explain.

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8. Gavin needs to move up more than 4 spaces to win the game. Is he likely to win on his next turn? What is the probability that he will **not** win on his next turn? Explain.

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