

LESSON
12-1

Probability

Practice and Problem Solving: A/B

HOMework
DUKE/CAMBRIDGE

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

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

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.

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.
