

LESSON
5-1

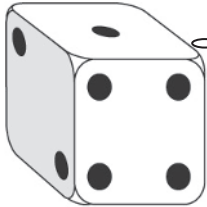
Probability

Success for English Learners

Problem 1

A number cube can help you understand probability.

Think!



Possible outcomes:
1 2 3 4 5 6

Is it **likely** that you will roll a 1 every time?

This means the probability of rolling a 1 every time is low.

No. The cube has 6 sides. Only one side is a 1. It is **unlikely** that I will roll a 1 every time.

Problem 2

There are 16 marbles in a bag.

To find the probability of **not** drawing a red marble, first find the probability of drawing a red marble.

R = Red G = Green B = Blue

RED

$$P(\text{Red}) = \frac{6 \text{ Red}}{16 \text{ Marbles}}$$

$$= \frac{3}{8}$$

NOT RED

$$P(\text{Not Red}) = 1 - P(\text{Red})$$

$$= 1 - \frac{3}{8}$$

$$= \frac{5}{8}$$

P(Red) means “the probability of drawing a red marble.”
P(Not Red) means “the probability of drawing any marble that is NOT red.”

1. In Problem 1, is it more likely, less likely, or as likely as not to roll an even number? Why?

2. In Problem 2, how likely is it that you will select a purple marble? Why?
