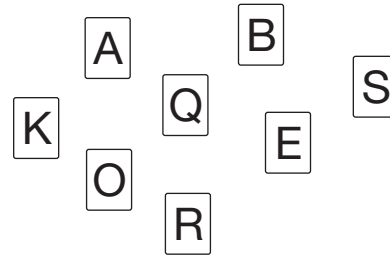


# Lesson 1 Skills Practice

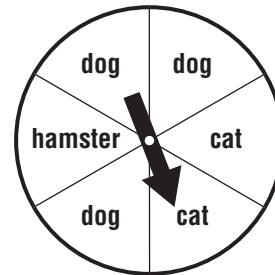
## Probability of Simple Events

A card is randomly chosen. Find each probability. Write each answer as a fraction, a decimal, and a percent.



- $P(B)$   $\frac{1}{8}$ , 0.125, or 12.5%
- $P(Q \text{ or } R)$   $\frac{1}{4}$ , 0.25, or 25%
- $P(\text{vowel})$   $\frac{3}{8}$ , 0.375, or 37.5%
- $P(\text{consonant or vowel})$   $\frac{8}{8}$ , 1, or 100%
- $P(\text{consonant or A})$   $\frac{3}{4}$  0.75, or 75%
- $P(T)$   $\frac{0}{8}$ , 0.0, or 0%

The spinner shown is spun once. Write a sentence explaining how likely it is for each event to occur.



- $P(\text{dog})$  Since the probability of spinning a dog or not spinning a dog is 50%, spinning a dog is equally likely to occur.
- $P(\text{hamster})$  Since the probability of spinning a hamster is 16.6%, spinning a hamster is less likely to occur.
- $P(\text{dog or cat})$  Since the probability of spinning either a dog or a cat is 83.3%, spinning a dog or cat is likely to occur.
- $P(\text{bird})$  Since the probability of spinning a bird is 0%, spinning a bird is impossible to occur.
- $P(\text{mammal})$  Since the probability of spinning a mammal is 100%, spinning a mammal is certain to occur.

**WEATHER** The weather reporter says that there is a 12% chance that it will be moderately windy tomorrow.

- What is the probability that it will not be windy?  $\frac{22}{25}$ , 0.88, or 88%
- Will tomorrow be a good day to fly a kite? Explain.  
No; a 12% chance means that it is unlikely to be windy.