THEORETICAL PROBABILITY
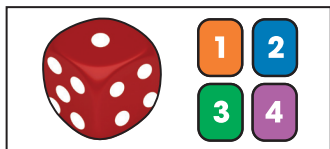
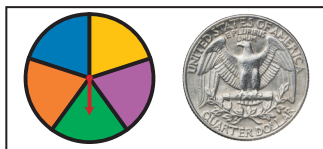**Determine how many outcomes are possible for the following pairs of events.**

a) Roll a die and pick a card.

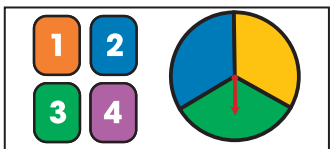_____ outcomes

b) Spin the spinner and flip a coin.

_____ outcomes

c) Flip a coin and pick a card.
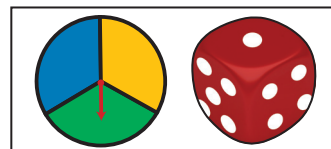

_____ outcomes

d) Pick a card and spin the spinner.
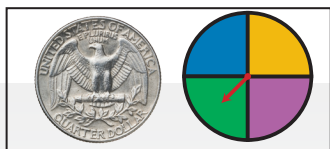

_____ outcomes

e) Roll the die and flip a coin.
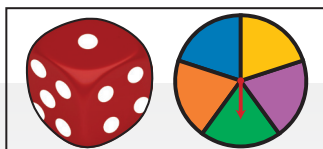

_____ outcomes

f) Spin the spinner and roll a die.

_____ outcomes

g) Flip a coin and spin the spinner.

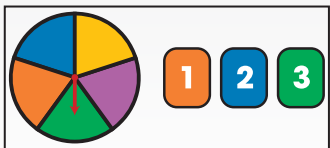

_____ outcomes

h) Roll the die and spin the spinner.

_____ outcomes

i) Pick a card and flip a coin.
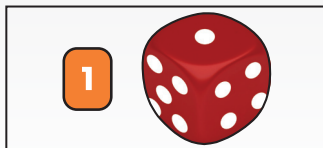

_____ outcomes

j) Spin the spinner and pick a card.

_____ outcomes

k) Pick a card and roll a die.
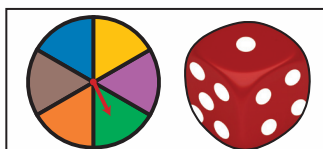

_____ outcomes

l) Flip a coin and roll a die.
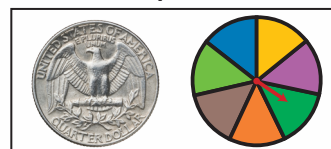

_____ outcomes

m) Flip a coin and pick a card.

_____ outcomes

n) Spin the spinner and roll a die.

_____ outcomes

o) Flip a coin and spin the spinner.

_____ outcomes
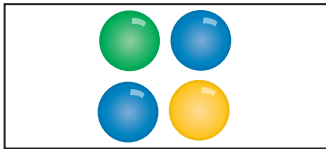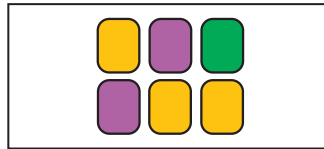
THEORETICAL PROBABILITY

Determine the probability for the following events as a fraction. Simplify your answer.

a) Choosing a green marble.

P = _____

b) Choosing a purple card.

P = _____

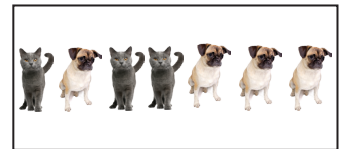**c)** Rolling an even number.

P = _____

d) Flipping heads.

P = _____

e) Choosing a baseball.

P = _____

f) Getting a dog.

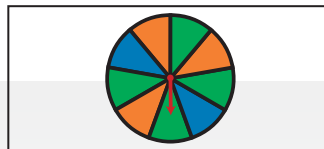P = _____

g) Getting a yellow flower.

P = _____

h) Landing on orange.

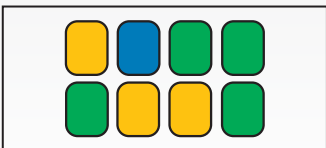P = _____

i) Picking a banana.
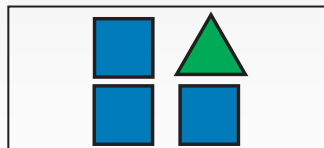
P = _____

j) Choosing a yellow card.

P = _____

k) Choosing a triangle.

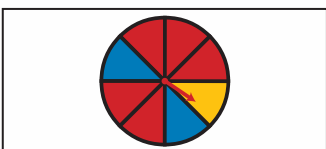P = _____

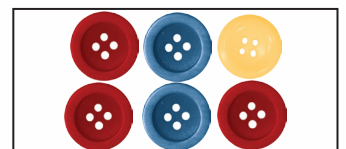**l)** Choosing an American flag button.

P = _____

m) Landing on blue.

P = _____

n) Getting a bumblebee.

P = _____

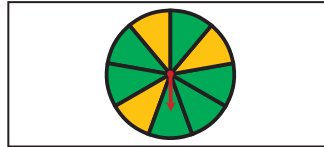**o)** Choosing a blue button.

P = _____

THEORETICAL PROBABILITY

Predict how many times you will land on the following colors if you spin the following amount of times.
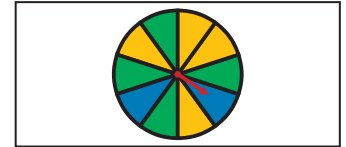
a) Land on blue after 6 spins.
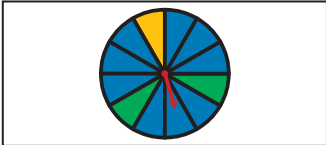
_____ times

b) Land on yellow after 9 spins.

_____ times

c) Land on green after 5 spins.

_____ times

d) Land on yellow or green after 4 spins.
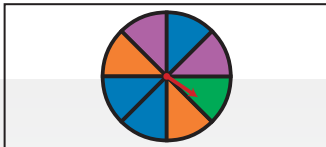
_____ times

e) Land on blue or red after 12 spins.
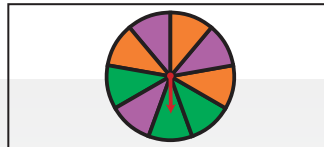
_____ times

f) Land on yellow after 18 spins.
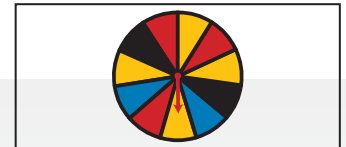
_____ times

g) Land on blue or green after 10 spins.

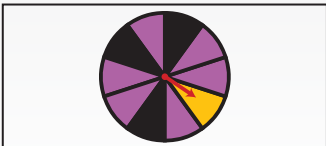_____ times

h) Land on orange or purple after 6 spins.
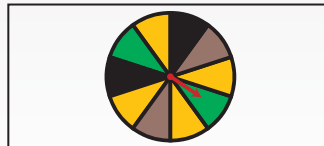
_____ times

i) Land on red or black after 11 spins.
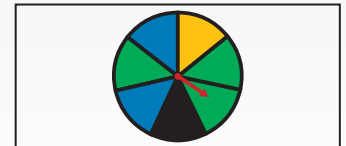
_____ times

j) Land on purple after 25 spins.
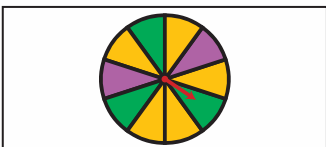
_____ times

k) Land on green or brown after 45 spins.
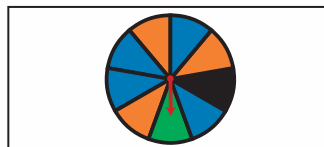
_____ times

l) Land on black or blue after 14 spins.

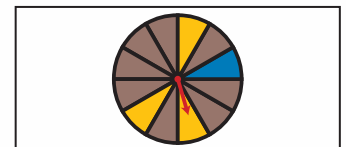_____ times

m) Land on green or purple after 16 spins.

_____ times

n) Land on orange or green after 18 spins.

_____ times

o) Land on blue or yellow after 9 spins.

_____ times