

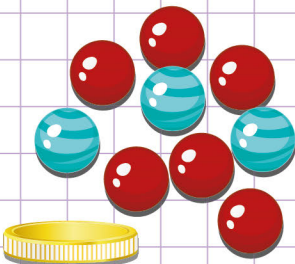
Name: Class:

Probabilities of compound events

a. Find the probability of getting a head in tossing the first coin and getting a tail in tossing the second coin?



b. Find the probability of picking a blue marble and flipping heads?



Name: Class:

Probabilities of compound events

a. Find the probability of getting a head in tossing the first coin and getting a tail in tossing the second coin?



Find the number of possible outcomes for the first coin.

The coin has 2 sides, so, there are 2 possible outcomes.

Find the number of possible outcomes for the second coin, the coin has 2 sides so there are 2 possible outcomes.

Multiply 2 by 2 to find the number of combinations = $2 \times 2 = 4$ combinations

So, there are 4 possible outcomes.

Find the number of Favorable outcomes for the first coin.

The coin has 1 head side, so there is 1 favorable outcome

Find the number of favourable outcomes for the second coin. the coin has 1 tail side, so there is 1 favorable outcome.

Multiply 1 by 1 to find the number of combinations = $1 \times 1 = 1$

So, there is 1 favorable outcome.

Therefore, the probability of getting a head in the first coin and getting a tail in the second coin is 1 out of 4

b. Find the probability of picking a blue marble and flipping heads?

Find the number of possible outcomes for the marbles, there are 9 marbles altogether.

So, there 9 possible outcomes.

Find the number of possible outcomes for the coin, the coin has 2 sides so there are 2 possible outcomes.

Multiply 9 by 2 to find the number of combinations = $9 \times 2 = 18$ combinations

So, there are 18 possible outcomes.

Find the number of Favorable outcomes for the marbles.

There are 3 blue marbles so, there are 3 favorable outcomes

Find the number of favorable outcomes for the coin. the coin has 1 head side, so there is 1 favorable outcome.

Multiply 3 by 1 to find the number of combinations = $3 \times 1 = 3$

So, there are 3 favorable outcome.

Therefore, the probability of picking a blue marble and flipping heads is 3 out of 18.

