

M8 - 11.1 - Probability of Independent Events WS

What is the probability of drawing a queen from a deck of cards?

What is the probability of getting tails from flipping a coin?

What is the probability of rolling a six-sided die and getting a two?

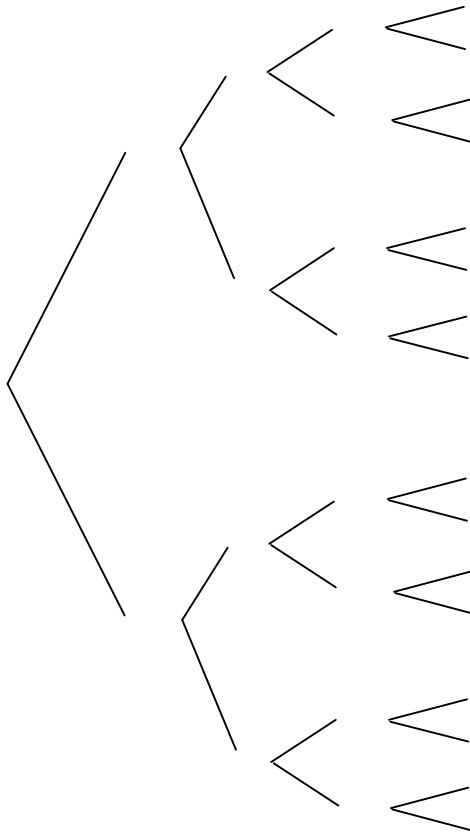
What is the probability of randomly drawing a red marble from a bag 3 red marbles and 2 blue marbles?

What is the sample space of flipping a coin?

What is the sample space of taking a marble out of a bag of red marbles and blue marbles?

M8 - 11.1 - Probability WS

1. Anakin flips a coin four times. Fill in the tree diagram for each possible outcome.
 - a. What is the probability he gets heads four times in a row?
 - b. What is the probability that he rolls two heads and two tails in any order?



2. Luke has two standard six-sided dice. One die is light and the other is dark.
 - a. When he rolls both die, what is the probability of rolling a sum greater than 8?
 - b. What is the probability that the number on the light die is greater than the number on the dark die?
 - c. What is the probability that the sum of the numbers is less than 10?

		Light Die						
		1	2	3	4	5	6	$P(\text{sum} > 8) =$
Dark Die	1							
	2							
	3							$P(L > D) =$
	4							
	5							
	6							$P(\text{sum} < 10) =$

M8 - 11.1 - Probability of Independent Events WS

Calculating probabilities

$$\text{Probability} = \frac{\# \text{ of successful outcomes}}{\# \text{ total outcomes}}$$

What is the probability of choosing a queen from a deck of cards?

What is the probability of choosing a card from a deck that is less than a 5?

What is the probability of winning a raffle if you purchased 3 tickets and a total of 90 tickets were sold?

What is the probability of choosing a red marble from a bag with 6 blue, 4 red and 2 yellow marbles?

Calculating probabilities of independent events.

What is the probability of getting two heads if two coins are tossed?

What is the probability of choosing a spade from a deck of cards and rolling a 3 on a die?

What is the probability of flipping a tail on a coin and choosing the ace of diamonds from a deck of cards?

M8 - 11.1 - Probability of Dependent Events WS

There is a bag of marbles containing 12 blue, 7 red, 1 yellow and 4 green.

What is the probability of choosing 2 blue marbles in a row?

What is the probability of choosing a green marble and then a red marble?

What is the probability of choosing a blue marble and then the yellow marble?

What is the probability of choosing two spades in a row from a deck of cards?

What is the probability of choosing two queens in a row from a deck of cards?

What is the probability of choosing two face cards (J, Q, K, A) in a row?