

I can determine the likelihood and probability of simple events.

Probability/Likelihood Review

I can find the probability of compound events.

What is a compound event?

A combination of simple events.

Example: if you toss a coin and roll a number cube, getting a heads and rolling a one is a compound event.

I can find the probability of compound events.

Tree Diagrams

A display of all the possible outcomes of a probability experiment.

I can find the probability of compound events.

Tree Diagram Example 1

You flip a coin 2 times. Draw a tree diagram and write out all possible outcomes.

Questions:

- 1) What is the probability of flipping heads twice in a row?
- 2) What is the probability of flipping a heads and tails in any order?

I can find the probability of compound events.

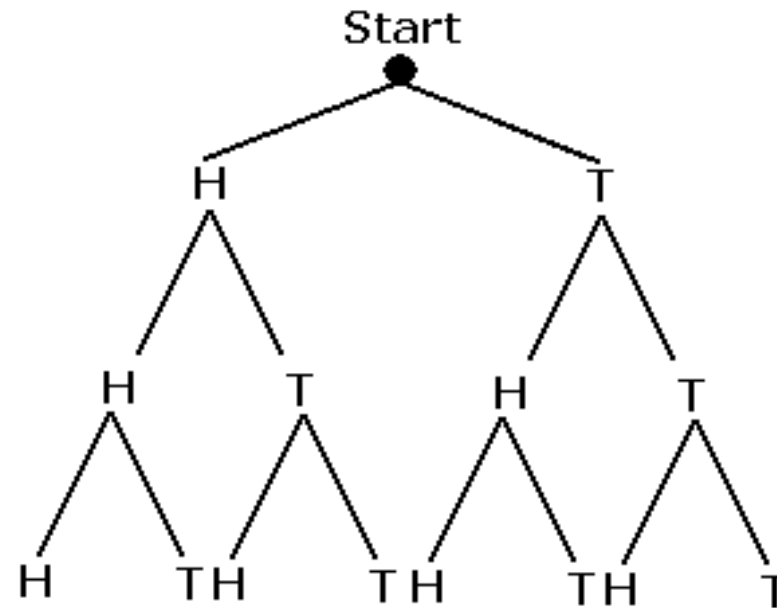
Tree Diagram Example 2

You spin two spinners. Both spinners have 1, 2 and 3 on them.

Questions:

- 1) What is the probability of spinning the same number on both spinners?
- 2) What is the probability of having a sum that is greater than 4?

I can find the probability of compound events.



What is the question?

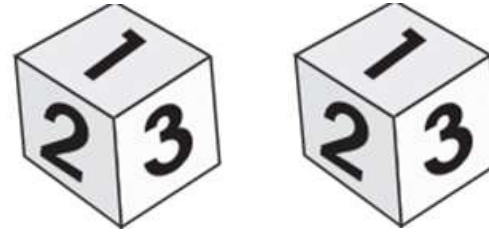
I can find the probability of compound events.

Area Model

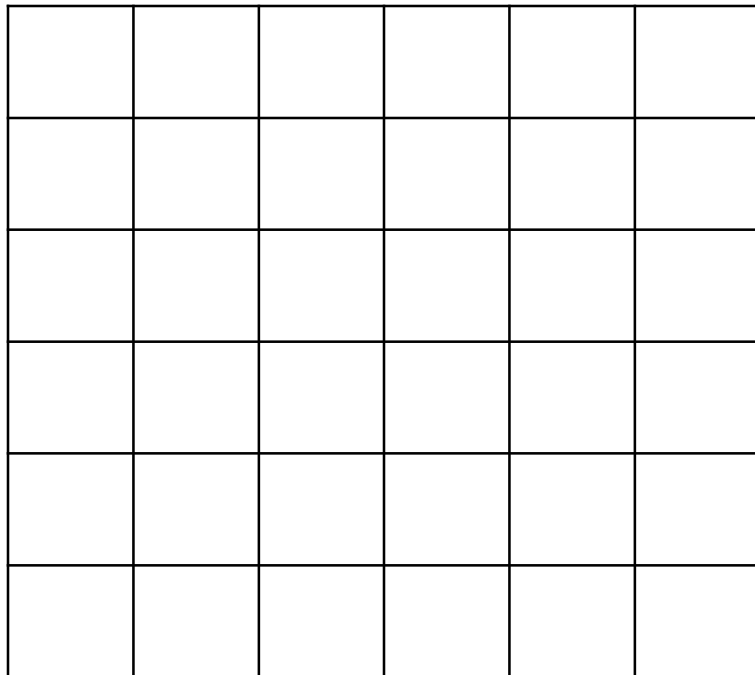
A display of all the possible outcomes of a probability experiment.

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Area Model Example



Jared is going to roll the dice (two). Draw an area model to find all the possibilities.



To answer questions like:

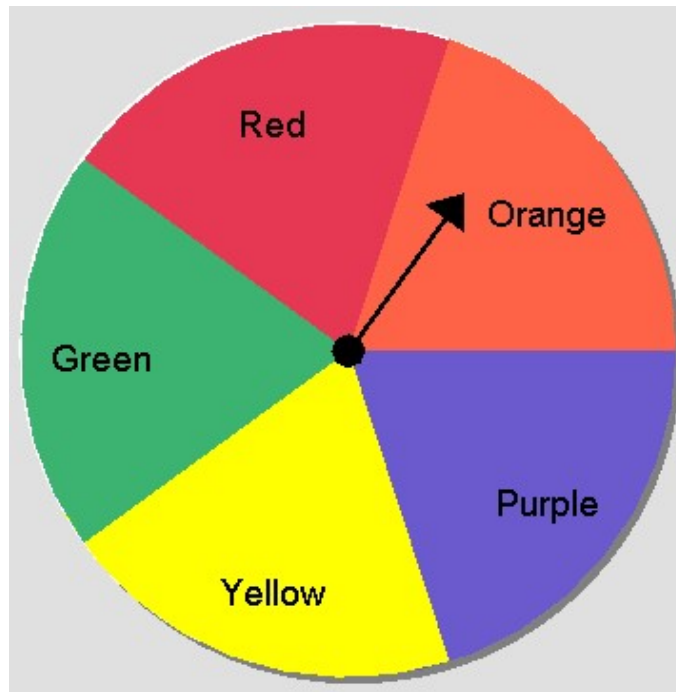
1) What is the probability that the sum of the dice will be less than 10?

2) What is the probability the sum will be greater than 11?

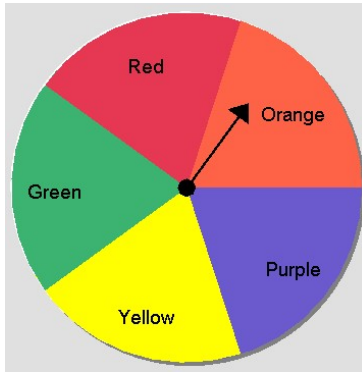
I can find the probability of compound events.

Draw a tree diagram AND make an area model for the following scenario:

You flip a coin then spin this spinner.



$P(\text{T and red or blue})?$



$P(T \text{ and red or blue})?$