



## Representing Sample Spaces: Multi-Stage Experiment

A movie theater is showing 3 movies: a drama, a comedy, and an action movie. There are showings at 1:00, 4:00, 7:00, and 10:00. The theater sells student and adult tickets. The theater manager wants to create a tree diagram of all the options. How many events are there?

There are  events.

Amro

A running club is making awards for an upcoming race. There are two events: 5 kilometers and 10 kilometers. There is a men's race and a women's race. There are three different age levels in the race: junior, adult, senior. There are awards for first place, second place, and third place. How many events are there?

There are  events.

A toy store sells a brand of stuffed animal. There are three types of animals: a bear, a lion, and an elephant. The stuffed animal can be pink or blue. The stuffed animal can be large or small. The stuffed animal can have a name sewn in or not. An employee wants to make a tree diagram of all the options. How many events are there?

There are  events.

Afra is ordering a necklace as a gift for her friend. There are 4 different necklaces she can choose from. She can choose to have the necklace gift wrapped or not. She can choose standard shipping or overnight shipping. Afra wants to create a tree diagram of all her options. How many events are there?

There are  events.