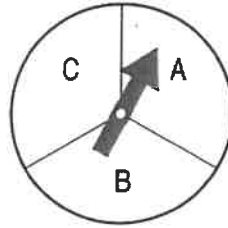


Probability of Compound Events

The spinner at the right is spun twice.

1. Draw a tree diagram to represent the situation.



2. What is the probability of getting at least one A?

For each situation, make a tree diagram to show the sample space. Then give the total number of outcomes.

3. Choosing a hamburger or hot dog then potato salad or macaroni salad
4. Choosing a vowel from the word COMPUTER and a consonant from the word BOOK
5. Choosing between the numbers 1, 2 or 3, and the colors blue, red, or green

6. **GASOLINE** Craig stops at a gas station to fill his gas tank. He must choose between full-service or self-service and between regular, mid-grade, and premium gasoline. Draw a tree diagram showing the possible combinations of service and gasoline type. How many possible combinations are there?

7. **COINS** Lorelei tosses a coin 4 times. Draw a tree diagram showing the possible outcomes. What is the probability of getting at least 2 tails?

8. **EQUIPMENT** The computer accessory that Grace is considering selling at her store comes in white, beige, gray, or black and as an optical mouse, mechanical mouse, or trackball. How many combinations of color and model must she stock in order to have at least one of every possible combination?