Tree Diagrams

Int 1   Unit 9

Draw a TREE DIAGRAM for the following situations to show the possible outcomes.

1. At lunch, you have the choice of pizza or spaghetti; a choice of milk or juice to drink;
    a choice of pudding or carrot cake for dessert. How many possible outcomes are there?

2. How many possible outcomes are there if I spin the spinner twice?

3. At a new elementary school the choices for the school mascot are a lion, a bear or a tiger;
   school color choices are red, blue and gold. How many possible outcomes are there?

Fundamental Counting Principle

Int 1   Unit 9

Use the FUNDAMENTAL COUNTING PRINCIPLE for the following situations to show the possible outcomes.

1. Sarah was going out with friends for her birthday. For dinner she will choose between Zupas, Chick-Fil-A, and Habit Burger; for an activity she will choose between bowling, a movie and roller skating; for dessert she will choose between Rita's, Coldstone or JCW's. How many outcomes are there for Sarah's birthday celebration?

2. Pizza Hut offers four different sizes of pizza, two types of crust and eight toppings. How many possible combinations of pizza are there?

3. The Paradise Bakery chef is making some new salads. She has four different kinds of lettuce, seven different toppings and five different dressings. How many different salads can she make with these items?

4. Sebastian has four shirts, three pairs of pants and five pairs of shoes. How many different outfits can be made from these items?