NAME: _____ SECTION: _____

TREE DIAGRAM



I. OBJECTIVES

The learner will be able to find the number of possibilities of an event using tree diagram.



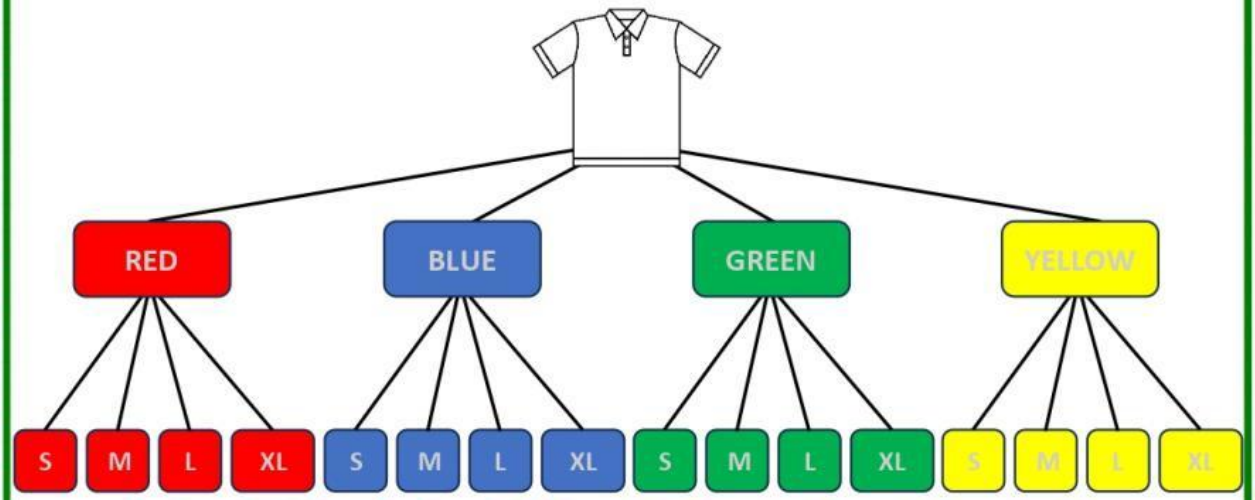
II. LESSON

TREE DIAGRAM

➢ It is a diagram used to show the total number of possible outcomes in a probability experiment.

Example:

1. A new polo shirt is released in 4 different colors (Red, Blue, Green, Yellow) and 5 different sizes (S, M, L, XL). How many different color and size combinations are available to the public?



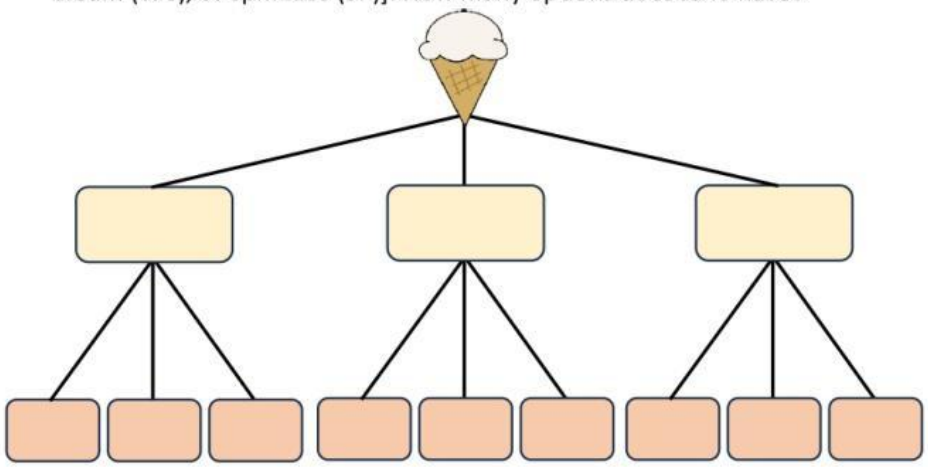
$$\{(R,S),(R,M),(R,L),(R,XL),(R,S),(R,M),(R,L),(R,XL),$$
$$(R,S),(R,M),(R,L),(R,XL),(R,S),(R,M),(R,L),(R,XL)\}$$

Answer: 16 combinations



III. ACTIVITY

Use the tree diagram to solve the given problem. At Sweet's Ice Cream Parlor, Jane wants to buy an ice cream in a cone. She can choose from 3 different ice cream flavors [chocolate (C), vanilla (V), or strawberry (S)] and one of the toppings [nuts (N), whipped cream (WC), or sprinkles (SP)]. How many options does Jane have?



Answer: _____

Prepared by: Maisie Trixy S. Calabia

LIVEWORKSHEETS