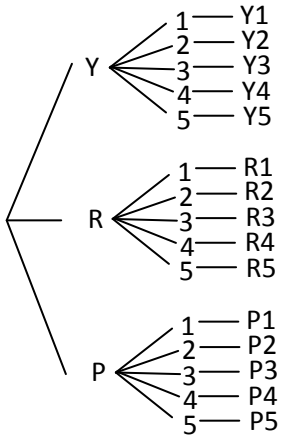
Name _____ Date _____

Generate Frequencies Through Design - Guided Lesson Explanation

Explanation#1

The branches of a tree diagram represents all possible outcomes.

Make a tree diagram, and then count the branches.



The first event has 3 outcomes: yellow (Y), red (R), and pink (P).

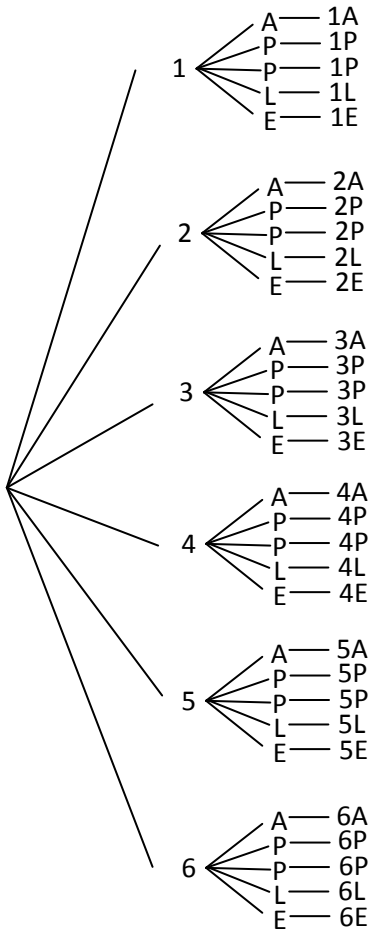
The second event has 5 outcomes: 1, 2, 3, 4, and 5.

Count the number of branches. There are 15 branches, so there are 15 possible outcomes.

Name _____ Date _____

Explanation # 2

Make a tree diagram, then count the branches.



The first event has 6 outcomes: 1, 2, 3, 4, 5 and 6.

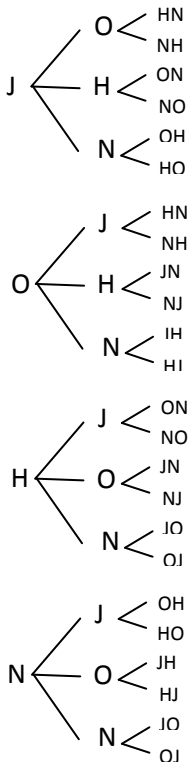
The second event has 5 outcomes: A, P, P, L, and E.

Count the number of branches. There are 30 branches, so there are 30 possible outcomes.

Name _____ Date _____

Explanation # 3

Make a tree diagram, then count the branches.



There are 24 possible arrangements (4 choices, 3 choices, 2 choices, 1 choices)

The probability of drawing J-O-H-N in that order is 1/24.

The probability that a “word” will have an J as the first letter is 6/24 or ¼.