
Tree Diagrams and Compound Events

Name _____

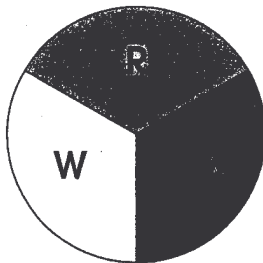
Draw a tree diagram to illustrate each probability.

Each high school student must sign up for one foreign language course and one music course. The language choices are French, Spanish, German, or Latin. The music choices are choir, symphony, or band. List all the possible outcomes.

POSSIBLE OUTCOMES: _____

What is the probability that Latin and band will be chosen? _____

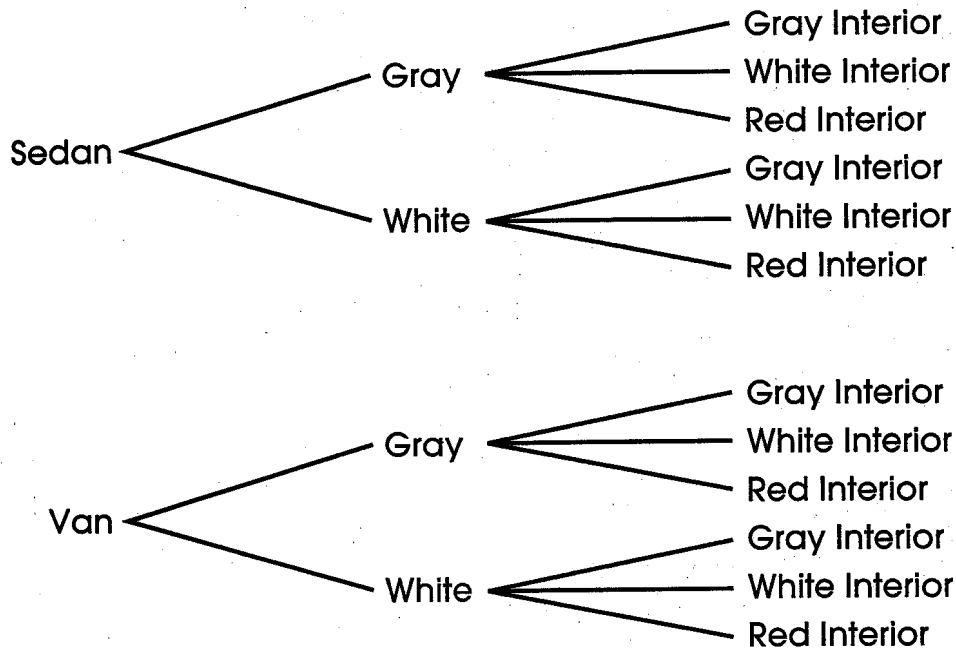
You have a coin and a spinner with the colors red, white, and blue. What is the probability of tossing heads with the color blue?



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Mary's family is looking at new cars. They have narrowed it down to the following choices. The tree diagram below shows the possible outcomes.



1. The compound event described above has how many possible outcomes? _____
2. What is the probability that Mary's family will select a gray sedan with a black interior? _____
3. What is the probability that they will select a gray van? _____
4. What is the probability that they will select a white van with a red interior? _____

EXTENSION

On another paper, show a different way to figure the number of possible outcomes in this compound event without drawing a tree diagram.