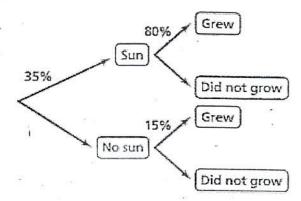
Period Date

You can use a tree diagram to organize information.

- 35% of a group of plants prefer the sun.
- 80% of the plants that received sun, grew.
- 15% of the other plants grew.



Find the following probabilities.

1. P (Sun and Grew)

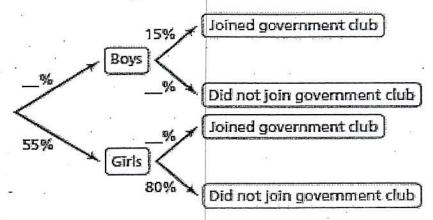
To determine the probability, multiply the probabilities along each branch.

2. P(No Sun and Grew)

3. P (Grew) = P (Sun and Grew) + P (No Sun and Grew)

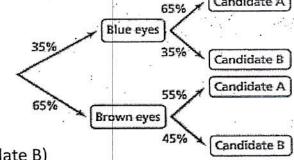
To combine probabilities of an outcome, add all the favorable outcomes.

The following represents the percent of boys and girls in the 10th grade at a school, and whether they joined the student government club.



- 4. Complete the tree diagram by filling in the blanks.
- 5. Find P(Girls AND Did not join government club)
- 6. What is the overall percentage of students who joined the government club?

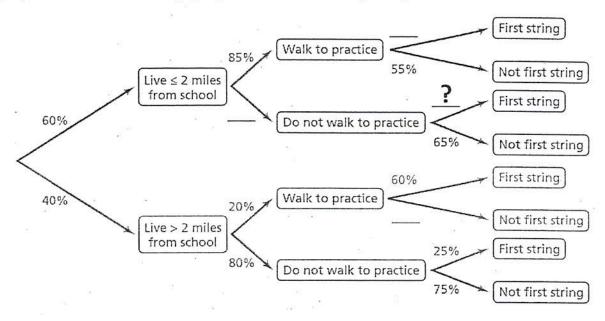
The tree diagram shows the percent of blue-eyed voters and brown-eyed voters that voted for 2 candidates.



7. P (Blue Eyes AND Candidate B)

8. What is the overall percentage of voters who voted for candidate A?

The tree diagram below shows the percentage of a school's basketball players who live within 2 miles of school, whether or not they walk to practice, and whether or not they are one of the 5 players in the first string (players who start the game).



- 9. Explain what the probability of the "?" in the blank on the tree diagram represents.
- 10. Find P(Lives > 2 miles from school AND Walks to practice)
- 11. What is the overall percentage of basketball players who Live \leq 2 miles from school who do not walk to practice and are not on the first string?