

## ***AP Statistics***

### *Tree Diagrams*

1. A private college report contains these statistics:

*70% of incoming freshmen attended public schools.*

*75% of public school students who enroll as freshmen eventually graduate.*

*90% of other freshmen eventually graduate.*

- a. Is there any evidence that a freshman's chances to graduate may depend upon what kind of high school the student attended? Explain.
- b. What percent of freshmen eventually graduate?
- c. What percent of students who graduate from the college attended public high school?

***AP Statistics***

*Tree Diagrams*

2. A company's records indicate that on any given day about 1% of their day-shift employees and 2% of the night-shift employees will miss work. Sixty percent of the employees work the day shift.
  - a. Is absenteeism independent of shift worked? Explain.
  - b. What percent of employees are absent on any given day?
  - c. What percent of the company employees who are absent are on the night shift?