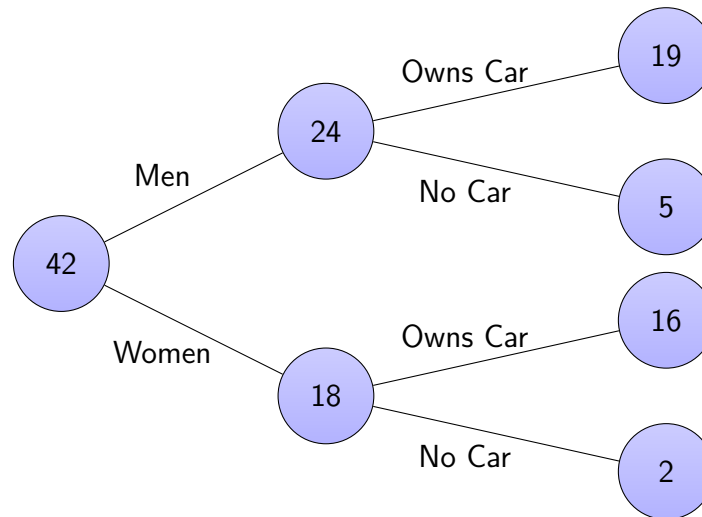


Probability Trees



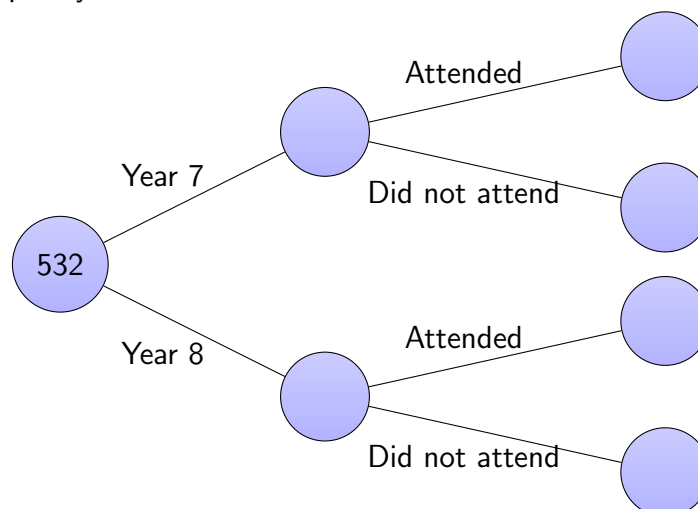
- i. Peter conducted a survey of staff working in his office. He collected data about the ownership of cars based on their gender. The probability tree below shows his results.



- How many members of staff did Peter survey in total?
 - What is the probability that a given staff member owned a car?
 - What is the probability that a given member of staff is a male who does not own a car?
- ii. In a secondary school, there are 532 students altogether in Years 7 and 8. There are 255 students in Year 8.

The PE department run football training after school on a Thursday for Year 7 and 8 students. 85 of the 165 students that attended football training are in Year 8.

- Complete the frequency tree.



- Mr Johnson says “A greater percentage of the students in Year 7 attended football training than the students in Year 8”. Explain why Mr Edwards is wrong.