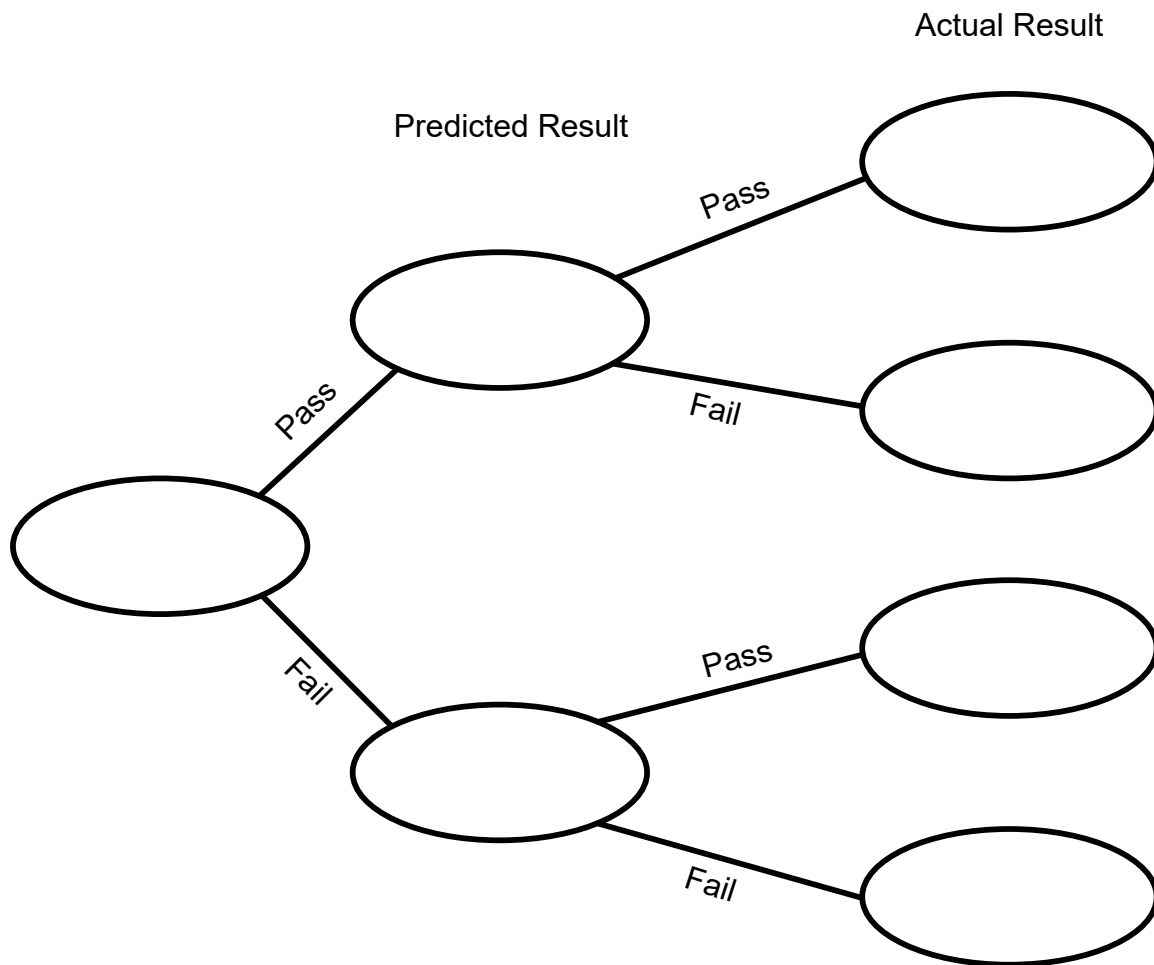


## Frequency Trees

- 1 50 children sat a maths exam.  
38 children predicted that they would pass the exam.  
Of those that predicted that they would pass the exam, 7 failed.  
12 people failed the exam.  
What percentage of people were correct with their predictions?



2 Exhibitors at a motor show were split into categories to determine where they put their vehicles. The categories were modern or historical, motor cars or motor bicycles.

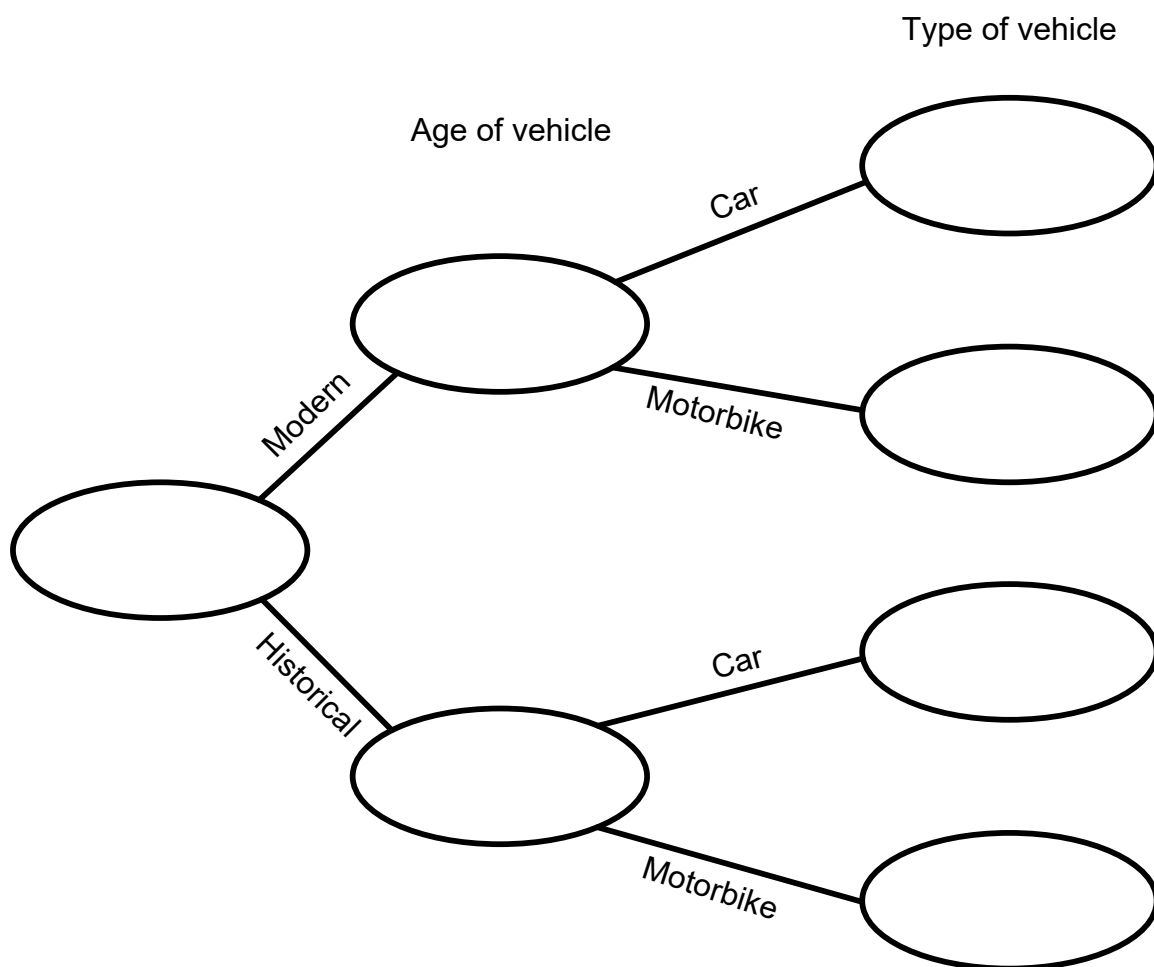
Twelve motorbikes were of a historical nature.

Altogether, there were 80 cars, of which, a quarter were historical.

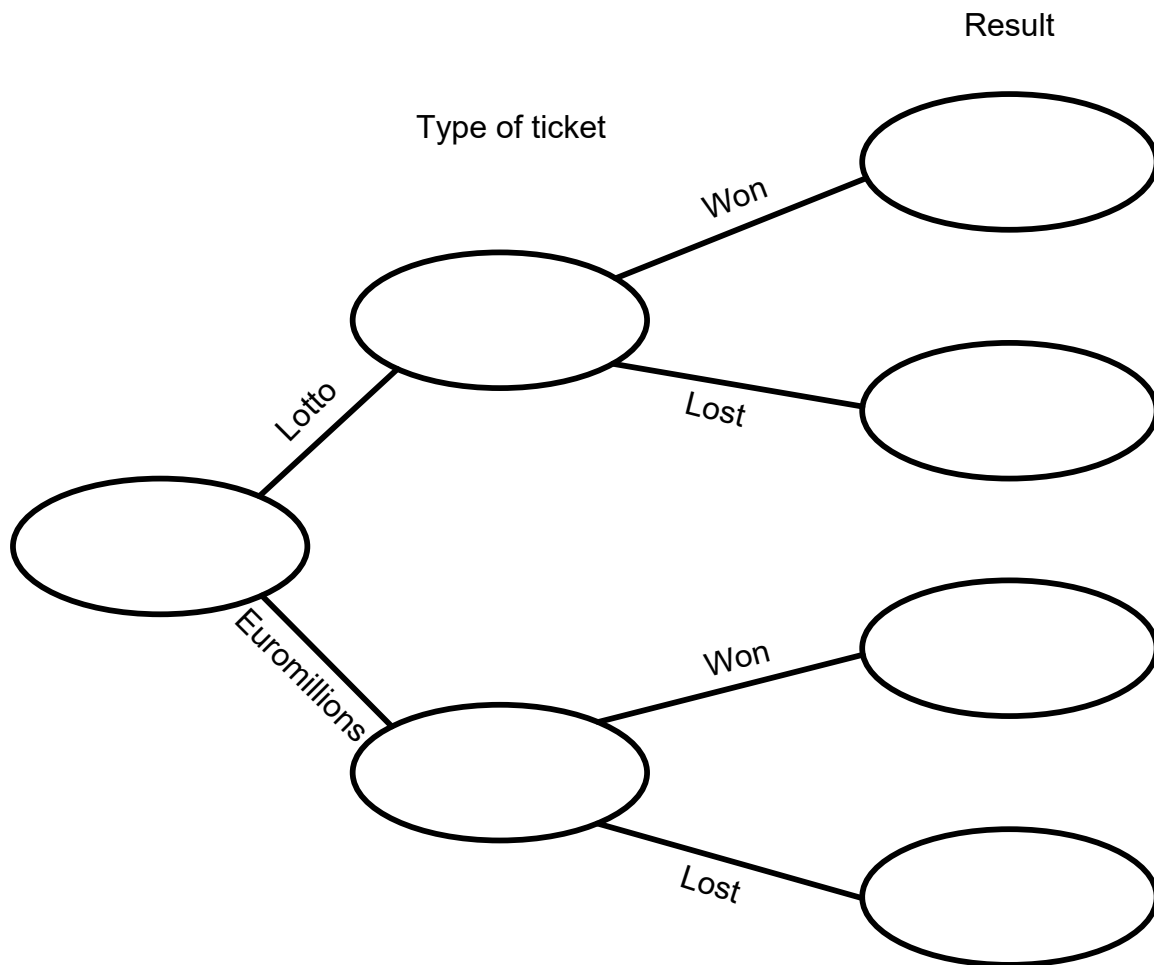
Forty-one vehicles were shown in the modern part of the show.

Eleven motorbikes were from the modern era.

If you selected a vehicle at random, what would the chances be of it being modern car?



- 3 Bill purchased 30 lottery tickets altogether.
- $\frac{1}{6}$  of the tickets were Euromillions tickets.
- The remaining tickets were normal Lotto tickets.
- Two of the Euromillions tickets won.
- 80% of the tickets lost.



Euromillions tickets cost £2.50 and the winning tickets yielded a prize of £5.

Lotto tickets cost £2 and the winning tickets yielded a prize of £30.

How much profit or loss did Bill make?