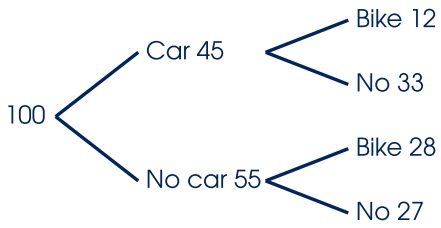
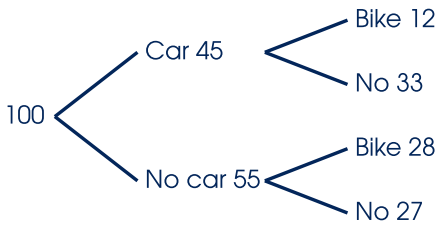
GCSE HIGHER · REVISION MAT 4

Frequency trees

1 How many people have a bike but no car?



2 How many people have a bike?



3 Explain why a frequency tree is useful for recording survey results.

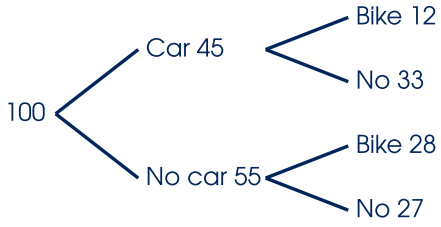
4 60 dogs: 25 are puppies.

10 of the puppies and 20 of the adult dogs are trained.

How many dogs are not trained?

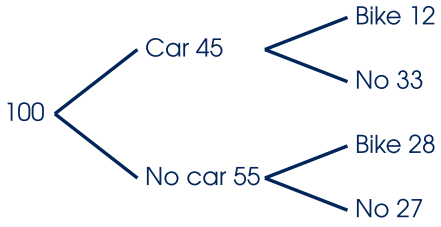
5 A person is chosen at random.

Show that P(car and bike) = 0.12.

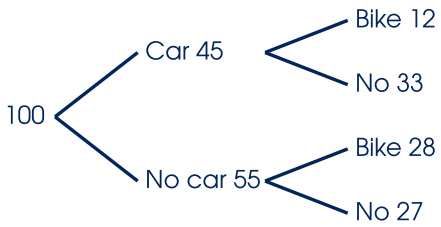


6 A person with a bike is chosen.

Find P(no car).



7 Show the information in a two-way table.



8 A school has 500 students; 60% are girls.

30% of the girls and 40% of the boys walk to school.

How many students walk?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Frequency trees

1 28

2 40

3 It sorts people step by step into groups, so totals can be found easily.

4 Trained 30

30

5 $\frac{12}{100} = 0.12$

6 $\frac{28}{40} = \frac{7}{10}$

7 Car: bike 12, no bike 33

No car: bike 28, no bike 27

8 Girls 300: 90 walk

Boys 200: 80 walk

170