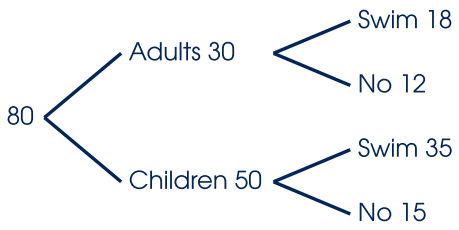
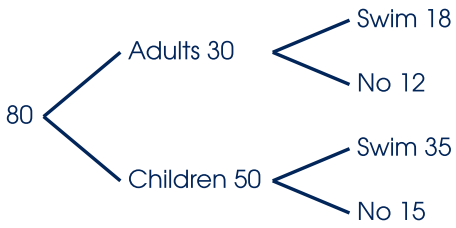
GCSE HIGHER · REVISION MAT 2

Frequency trees

1 How many children can swim?



2 How many people cannot swim?



3 Explain why the numbers on two branches from the same point add up to the number at that point.

4 200 students: 120 chose Art.

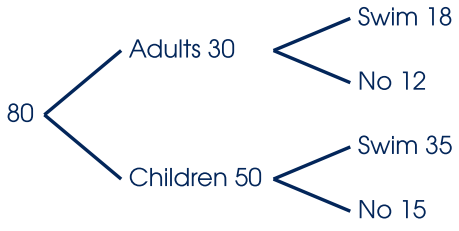
90 of the Art students are girls.

There are 110 girls altogether.

How many boys did not choose Art?

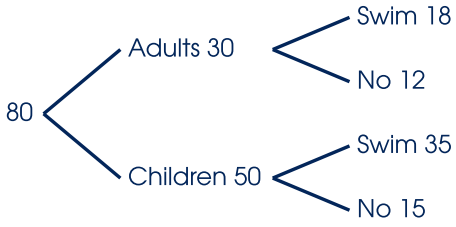
5 Show that

P(an adult who can swim) = $\frac{9}{40}$.

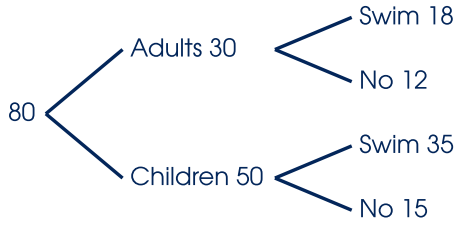


6 A person who can swim is chosen.

Find P(child).



7 What fraction of adults cannot swim?



8 150 people: $\frac{2}{5}$ are under 30.

60% of the under-30s and $\frac{1}{3}$ of the others own a bike.

How many own a bike?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Frequency trees

1 35

2 27

3 Every person goes down exactly one of the branches.

4 Boys 90; boys in Art 30

60

5 $\frac{18}{80} = \frac{9}{40}$

6 53 swimmers

$\frac{35}{53}$

7 $\frac{12}{30} = \frac{2}{5}$

8 Under 30: 60, bikes 36

Others 90, bikes 30

66

Mr&Mrs MATHS