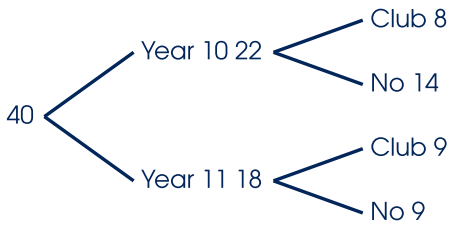
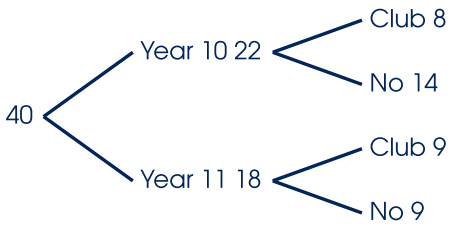
GCSE HIGHER · REVISION MAT 5

Frequency trees

1 How many Year 11 students go to a club?



2 How many students do not go to a club?



3 Explain how you would complete a frequency tree from a two-way table.

4 80 runners: 48 are women.

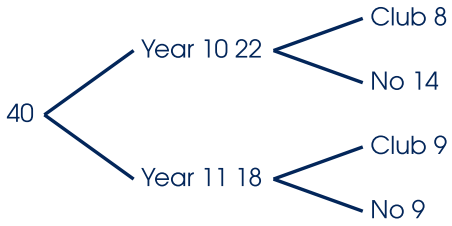
30 women and 20 men finish in under an hour.

How many men take an hour or more?

5 A student is chosen at random.

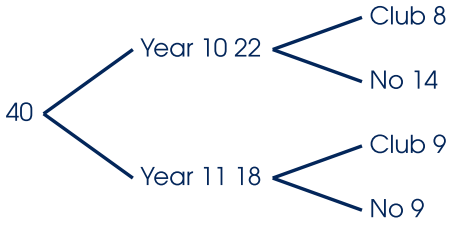
Show that

P(Year 10 and goes to a club) = $\frac{1}{5}$.

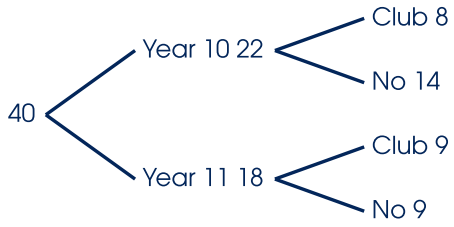


6 A club member is chosen.

Find P(Year 11).



7 What fraction of Year 11 go to a club?



8 400 phones were tested: $\frac{3}{8}$ had a fault.

80% of faulty phones were repaired.

$\frac{1}{10}$ of phones without a fault were returned anyway.

How many phones were repaired or returned?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Frequency trees

1 9

2 23

3 Use the row totals for the first branches and the cells for the second branches.

4 Men 32

12

5 $\frac{8}{40} = \frac{1}{5}$

6 17 club members

$\frac{9}{17}$

7 $\frac{9}{18} = \frac{1}{2}$

8 Faulty 150: 120 repaired

Not faulty 250: 25 returned

145