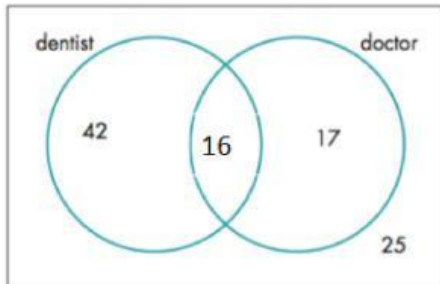


## Level 1 .

There are 100 people in a survey.

This Venn diagram shows how many went last year to the doctor or the dentist or both.



$P(\text{only dentist}) =$

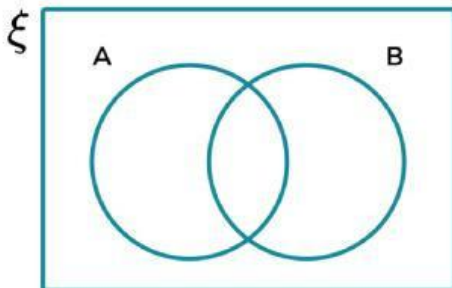
$P(\text{neither}) =$

$P(\text{both dentist and doctor}) =$

### ◆ Level 2 In a survey of 20 students:

- 7 like **aerobics (A)**
- 8 like **Basketball (B)**
- 5 like both

a) Complete the Venn diagram (write numbers in each region)



b) Find:

- $P(A) =$  \_\_\_\_\_
- $P(B) =$  \_\_\_\_\_
- $P(A \cup B) =$  \_\_\_\_\_
- $P(\text{neither}) =$  \_\_\_\_\_

◆ **Level 3**

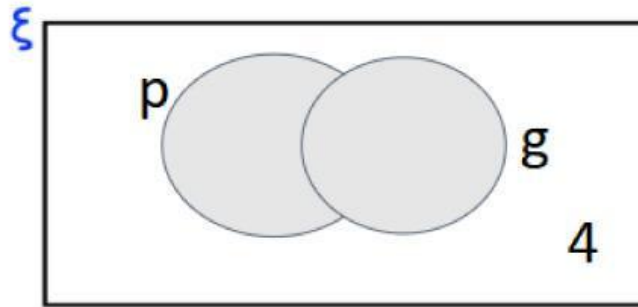
In a class of 24 students

12 students play the piano

13 students play the guitar

4 students play neither instrument.

(a) Represent this information on a Venn diagram



(b) Work out the probability of students playing only piano