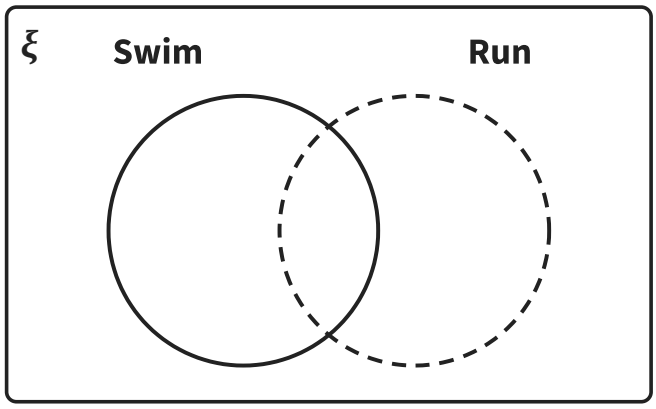
Conditional probability: Venn diagrams *lesson handout*

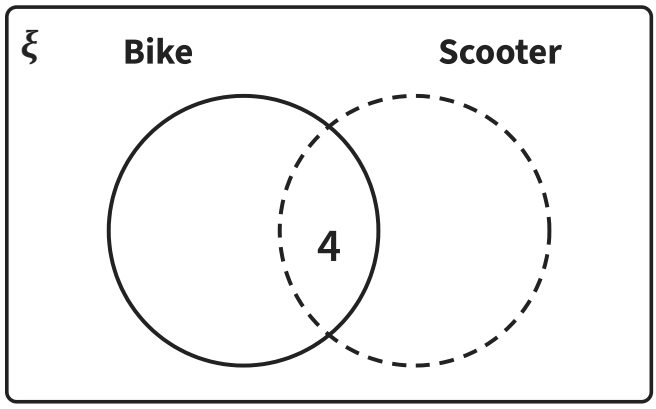
I do

30 students: 16 swim, 11 run and 5 do both.
Complete the Venn diagram.



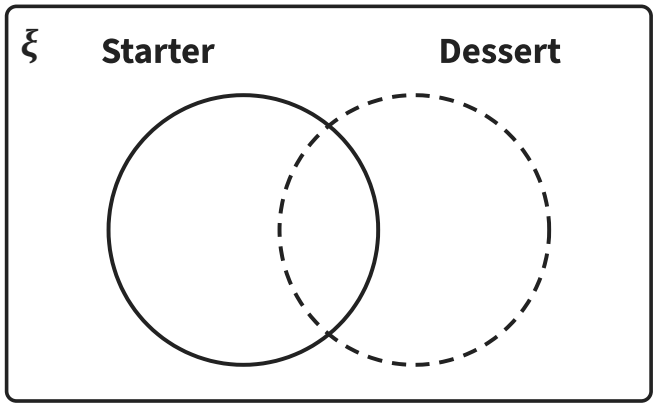
We do

25 people: 14 have a bike, 9 have a scooter and 4 have both.
Complete the Venn diagram.



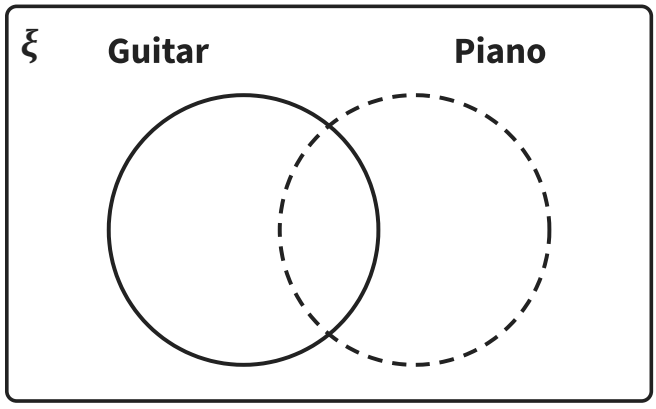
You do

40 diners: 18 had a starter, 23 had a dessert and 7 had both.
Complete the Venn diagram.



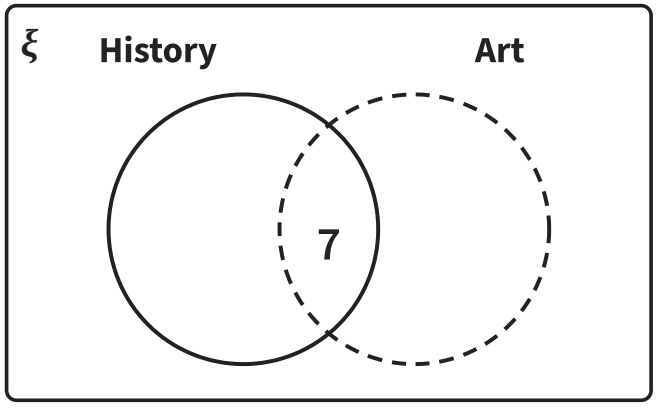
You do

32 people: 9 play only the guitar, 6 play the guitar and the piano, and 20 play the piano. Complete the Venn diagram.



We do

36 students: 20 study history, 15 study art and 7 study both.
Given that a student studies history, find the probability that they also study art.



You do

45 members: 26 use the pool, 17 use the sauna and 8 use both. **Given that** a member uses the sauna, find the probability that they also use the pool.

