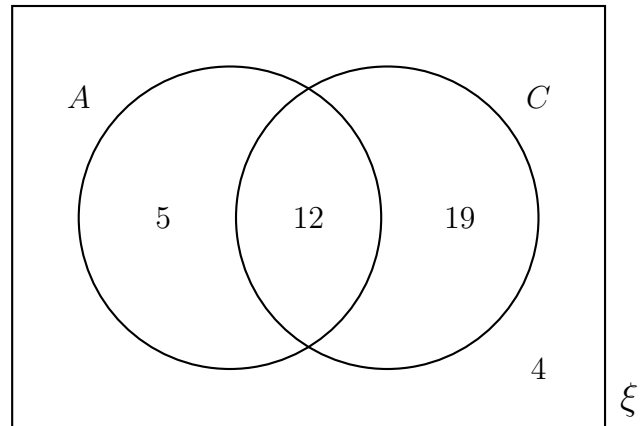


1. This Venn diagram shows the number of film club members who like action, A and comedy, C films.

A film club member is picked at random.

(i) Write down $P(A')$

.....



(ii) Describe in words what $P(A \cap C)$ means.

.....
.....

2. Some students were asked about the kind of movie they would watch alone in a house in the woods.

A is the set of students that would watch an animation movie.

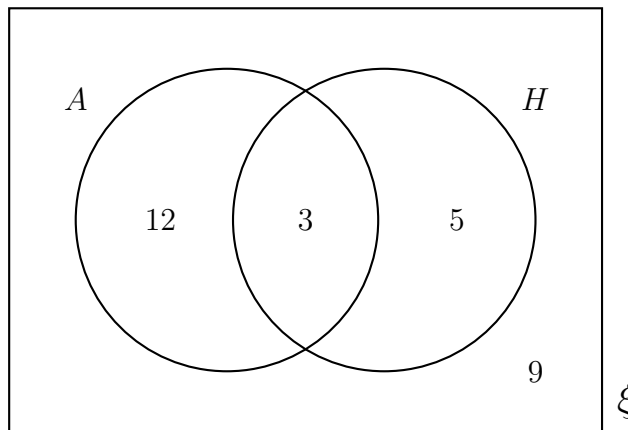
H is the set of students that would watch a horror movie.

The Venn diagram shows the number of students in each set.

A student is selected at random.

(i) Write down $P(H)$

.....



(ii) Describe in words what $P(A \cup H)$ means.

.....

3. This Venn diagram shows the number of visitors to the vet who own a cat, C and who own a dog, D .

A visitor to the vet is picked at random.

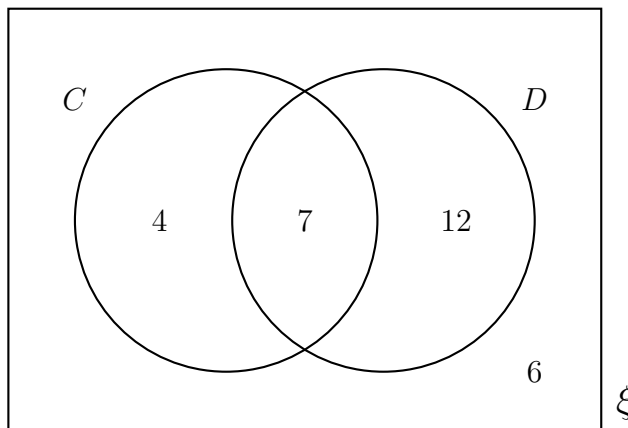
(a) Write down

(i) $P(C)$

.....

(ii) $P(C \cap D)$

.....



(b) Describe in words what $P(C \cup D)$ means.

.....

.....

Answers

1. (i) $\frac{23}{40}$
(ii) probability (that one of the film club members) likes action and comedy (films)
2. (i) $\frac{8}{29}$
(ii) probability (that the student would watch an) animation or a horror (movie)
3. (i) $\frac{11}{29}$
(ii) $\frac{7}{29}$
(b) probability (that the visitor to the vet owns a) cat or dog (or both)