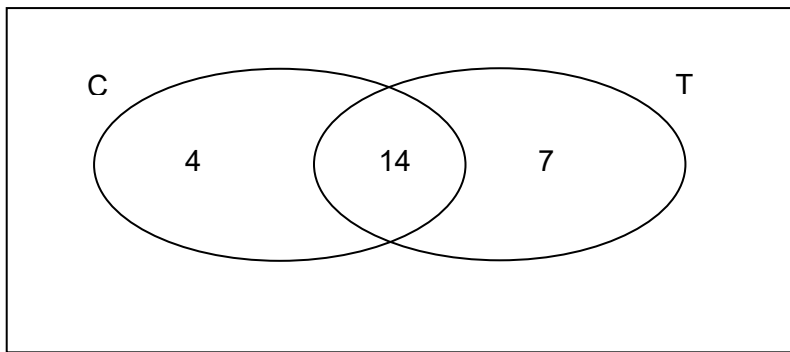


## Topic test 2 (20 minutes)

### Probability – Foundation (Calculator)

- 1 There are 30 students in a class.  
The students are asked whether they like going to the cinema (C) or watching TV (T).

The Venn diagram shows the results.



- 1 (a) How many students like watching TV?

[1 mark]

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Answer \_\_\_\_\_

- 1 (b) How many students like going to the cinema, but do **not** like watching TV?

[1 mark]

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Answer \_\_\_\_\_

- 1 (b) Work out the number of students who do not like watching TV or going to the cinema.

[2 marks]

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Answer \_\_\_\_\_

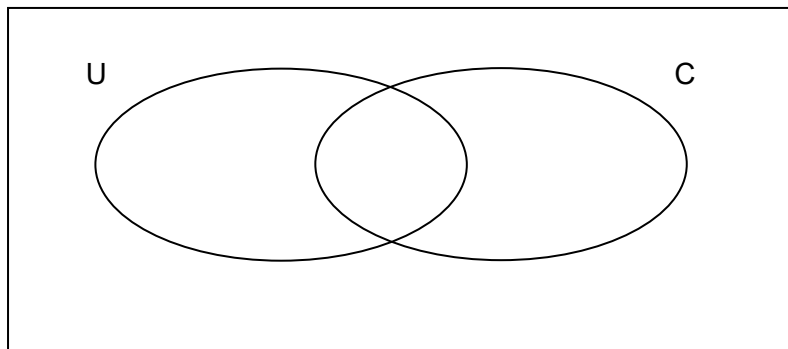
- 
- 2** A survey of 1000 University students is carried out.  
The students are asked whether they live on the University campus (U) and whether they own a car (C).

The results are given below.

- 79 students live on the University campus and own a car.
- 401 students live on the University campus and do not own a car.
- 349 students own a car.

- 2 (a)** Use the given information to complete the Venn diagram.

**[3 marks]**



- 2 (b)** A student is chosen at random.

What is the probability they do not live on the University campus and do not own a car?

Give your answer as a fraction in its simplest form.

**[2 marks]**

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Answer \_\_\_\_\_

3 Emma has 100 soft toys.  
Some are teddy bears (T)  
Some of the toys are damaged (D).  
The ratio of damaged toys to **not** damaged is 1 : 9.  
70% of the damaged toys are teddy bears.  
The ratio of teddy bears to **not** teddy bears is 3 : 2  
Use this information to complete the Venn diagram.  
You **must** show your working.

[5 marks]

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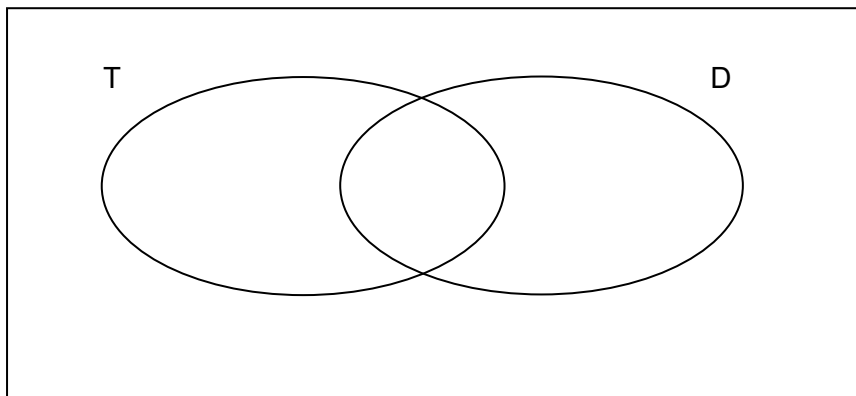
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Answer \_\_\_\_\_



**END OF QUESTIONS**