

**Probability – A2 Mathematics P3**

1. June/2022/Paper\_7357/03/No.16

A sample of 240 households were asked which, if any, of the following animals they own as pets:

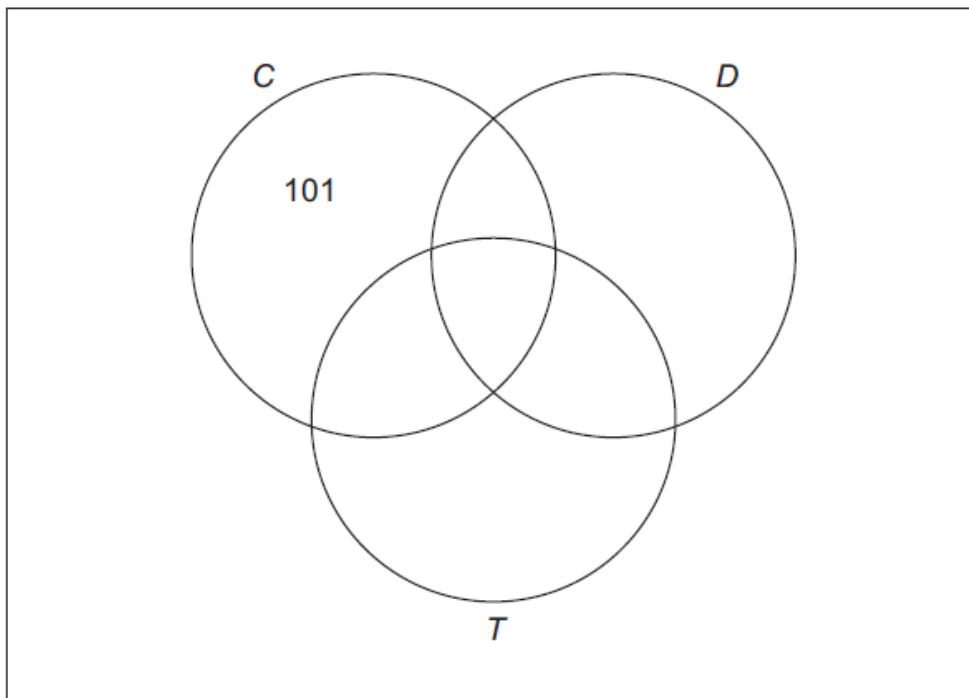
- cats ( $C$ )
- dogs ( $D$ )
- tortoises ( $T$ )

The results are shown in the table below.

Types of pet	$C$	$D$	$T$	$C$ and $D$	$C$ and $T$	$D$ and $T$	$C, D$ and $T$
Number of households	153	70	45	48	21	32	17

(a) Represent this information by fully completing the Venn diagram below.

[3 marks]



(b) A household is chosen at random from the sample.

(b) (i) Find the probability that the household owns a cat only.

[1 mark]

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