1. March/2023/Paper_9709/62/No.1
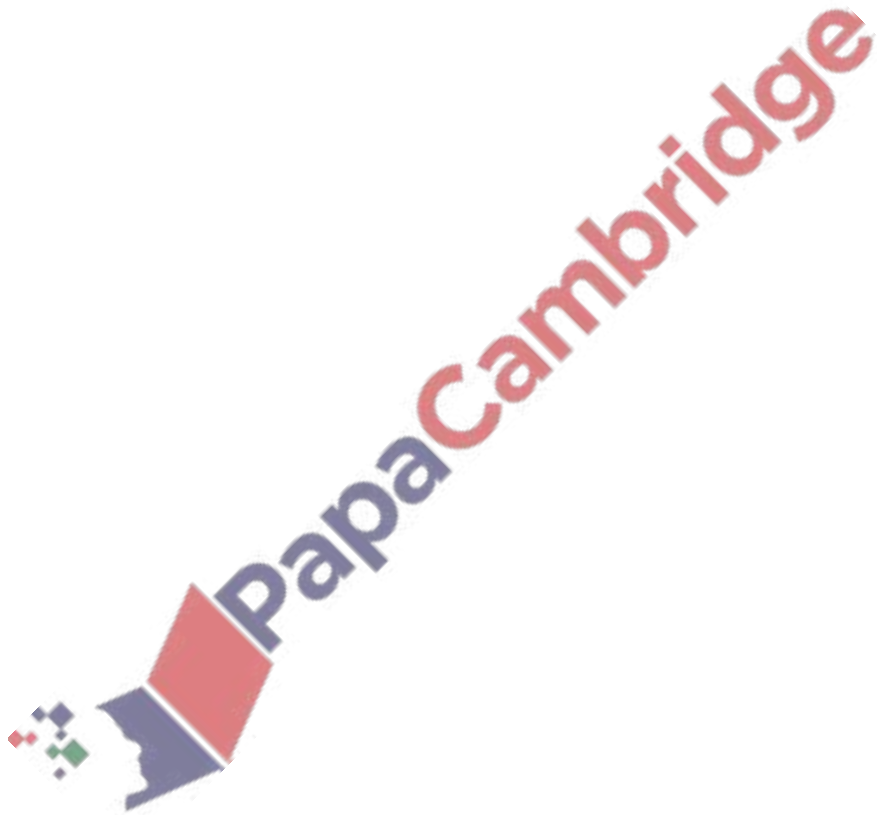
Anita carried out a survey of 140 randomly selected students at her college. She found that 49 of these students watched a TV programme called *Bunch*.

(a) Calculate an approximate 98% confidence interval for the proportion, p, of students at Anita's college who watch *Bunch*. [3]

Carlos says that the confidence interval found in **(a)** is not useful because it is too wide.

(b) Without calculation, explain briefly how Carlos can use the results of Anita's survey to find a narrower confidence interval for p. [1]