

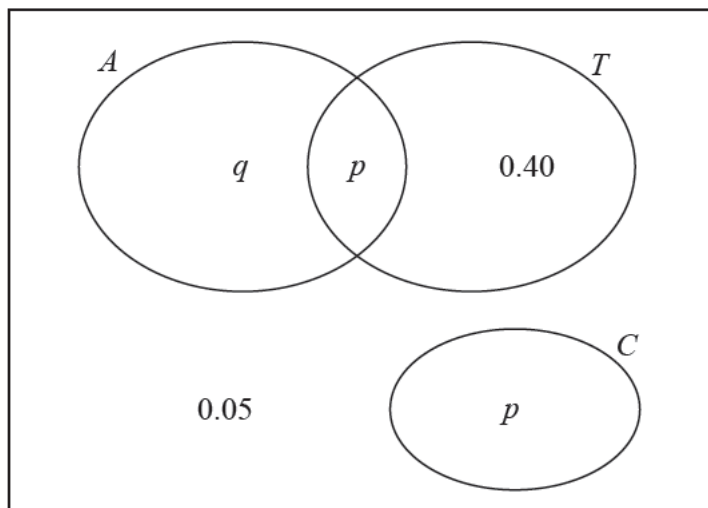
3. The Venn diagram shows the probabilities for students at a college taking part in various sports.

A represents the event that a student takes part in Athletics.

T represents the event that a student takes part in Tennis.

C represents the event that a student takes part in Cricket.

p and q are probabilities.



The probability that a student selected at random takes part in Athletics or Tennis is 0.75

- (a) Find the value of p .

(1)

- (b) State, giving a reason, whether or not the events A and T are statistically independent.
Show your working clearly.

(3)

- (c) Find the probability that a student selected at random does not take part in Athletics or Cricket.

(1)