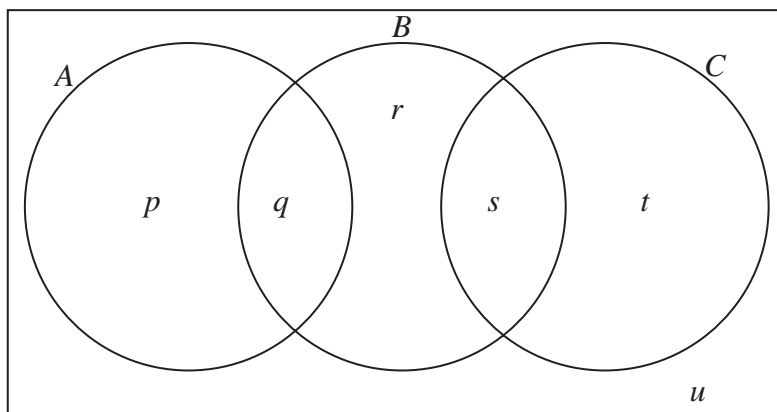


5. Events A , B and C are such that

- $P(A \text{ or } C) = 0.55$
- the probability that none of the events occur is 0.23
- the probability that exactly two of the events occur is 0.18
- A and B are independent
- $P(B) = P(A) + 0.1$

The Venn diagram represents the events A , B and C and their associated probabilities p , q , r , s , t and u



(a) Write down the value of u

(1)

(b) Find the value of r

(2)

(c) Find

(i) the value of p

(ii) the value of q

(iii) the value of s

(iv) the value of t

(4)