**5C Mutually Exclusive & Independent Events**

Mutually Exclusive

Independent

1. Events A and B are Mutually Exclusive and P(A) = 0.2 and P(B) = 0.4

 Calculate:

1. $P (A∪B)$

 b) $P (A∩B^{'})$

 c) $P (A'∩B^{'})$

1. Events C and D are Independent and P(C) = 1/3 and P(D) = 1/5

 Calculate:

1. $P (A∩B)$
2. $P (A∩B')$
3. $P (A'∩B')$
4. The Venn Diagram shows the number of students in a particular class that watch any of three popular TV programmes, A, B and C.
5. Find the probability that a student watches B or C or both.



 b) Determine whether watching A and watching B are statistically independent.