

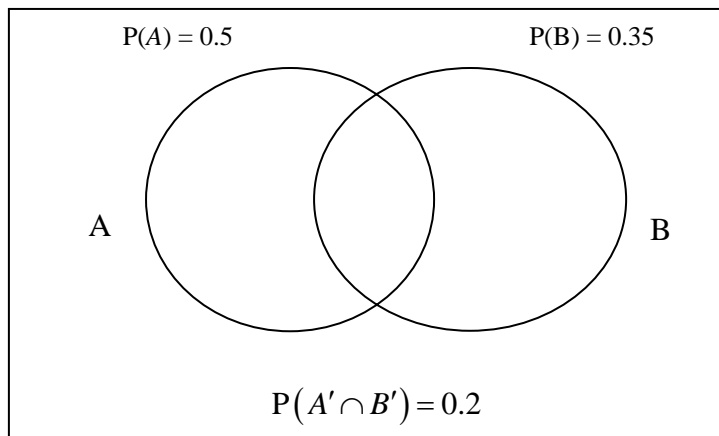
# EdExcel Statistics 1

## Probability

### Section 1: Introducing Probability

#### Exercise

- A fair octahedral die (eight sided, numbered 1 to 8) is thrown.  
Find the probability that it shows:
  - a 5
  - 5 or more
  - less than 5
  - a multiple of 2.
- A fair dodecahedral die (twelve sided, numbered 1 to 12) is thrown.  
Find the probability that it shows:
  - a 3
  - an even number
  - a multiple of 3 and an even number
  - a multiple of 3 or an even number
  - neither a multiple of three, nor an even number
- $A$  and  $B$  are 2 events such that:  
 $P(A) = 0.3$   
 $P(B) = 0.5$   
and  $P(A \cap B) = 0.15$   
Find:
  - $P(A')$
  - $P(B')$
  - $P(A \cup B)$
- Probabilities relating to the events  $A$  and  $B$  are given in the diagram below:



Find the probability that both  $A$  and  $B$  occur.