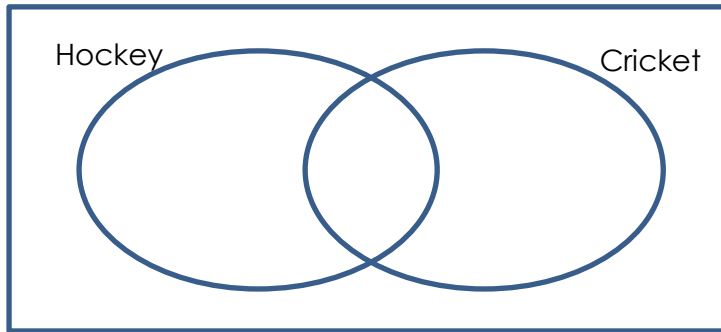


Name: _____
YEAR 11 MINI-ASSESSMENT 9
HIGHER – PROBABILITY

1. At a sports club, 15 members play hockey, 17 play cricket and 8 play both. 10 players play neither.
 (a) Complete the Venn diagram



(4)

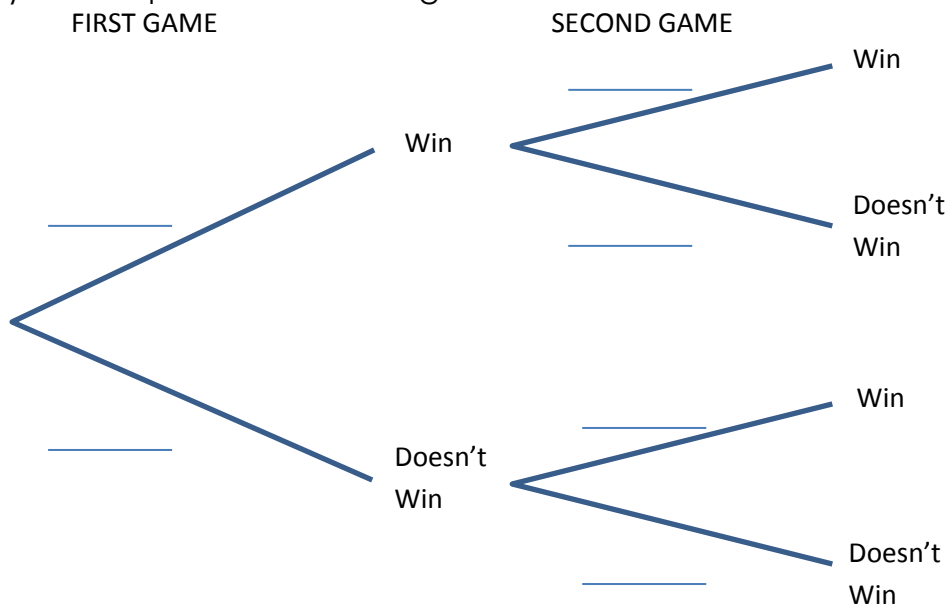
- (b) What is the probability that a member plays hockey but not cricket?

(1)

[5 marks]

2. Sheffield Wednesday are due to play two games over the Christmas period. The probability they win their first game is 0.2. If they win their first game, the probability they **don't win** their second game is 0.7. If they **don't win** their first game, the probability they **don't win** their 2nd game is 0.9.

- (a) Complete the tree diagram



(2)

- (b) What is the probability they win exactly one game over the Christmas period?

(3)

[5 marks]

3. There are 17 girls and 14 boys in Mr Wilder's mathematics class. Mr Wilder is going to choose at random 3 children from his class. Work out the probability that he will choose exactly 2 girls and 1 boy.

[4 marks]