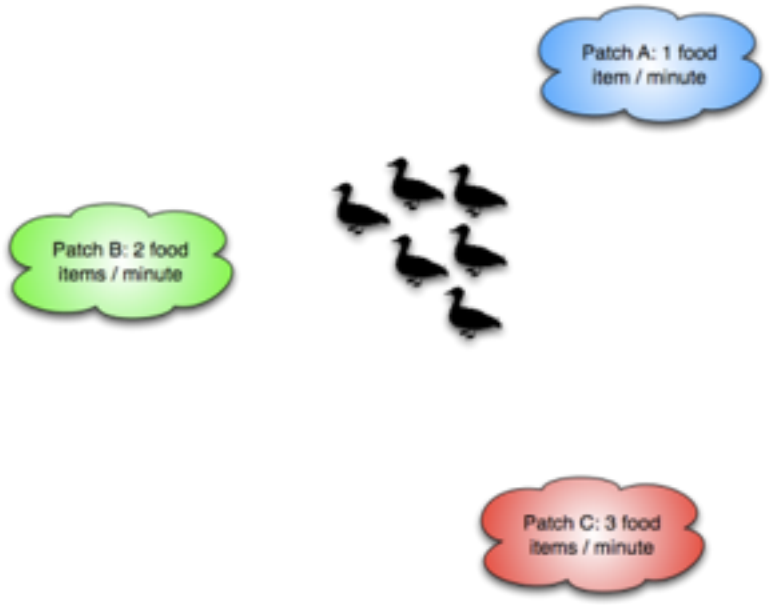
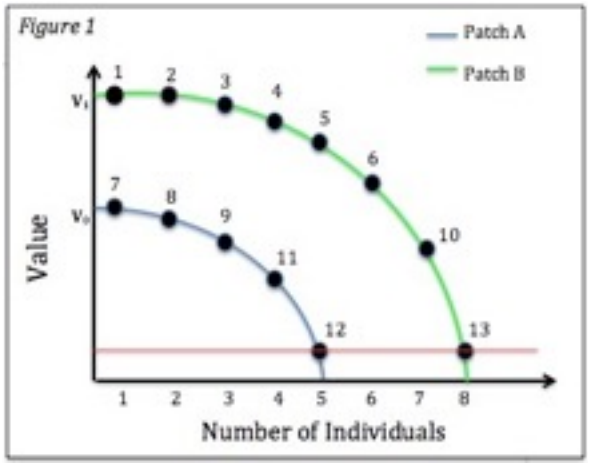
1) In the duck diagram below, based on the Ideal Free Distribution, how many of the ducks would we expect to see in patch B (green, resource rate: 2 food items per minute) if all other habitat characteristics were equal? Disregard density as a factor of fitness; only consider the ideal free distribution concept.



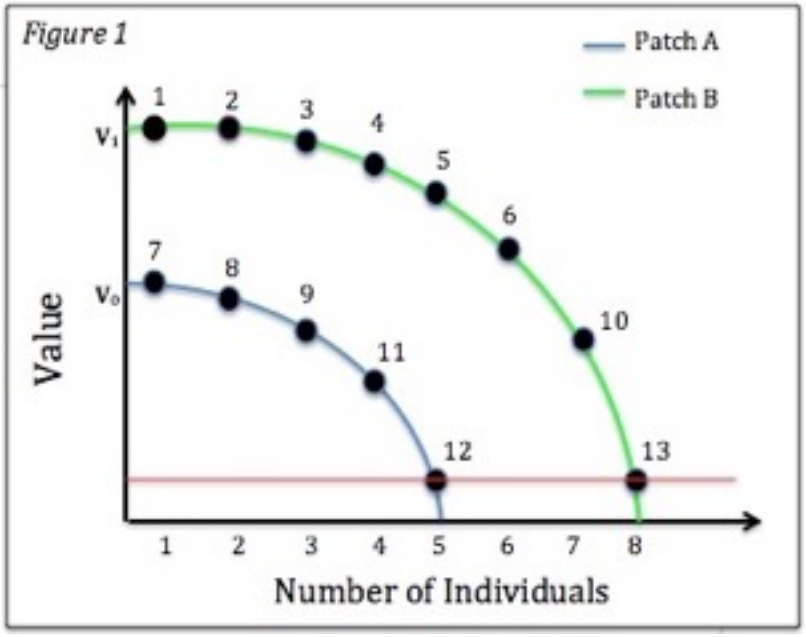
a.4
b.3
c.5
d.2
e.6
f.none
g.1

2) Considering Density as a factor in Ideal Free Distribution, and using the Nash Diagram below (Y= fitness value, X= number of individuals), which line is an indication of the initially higher quality habitat?



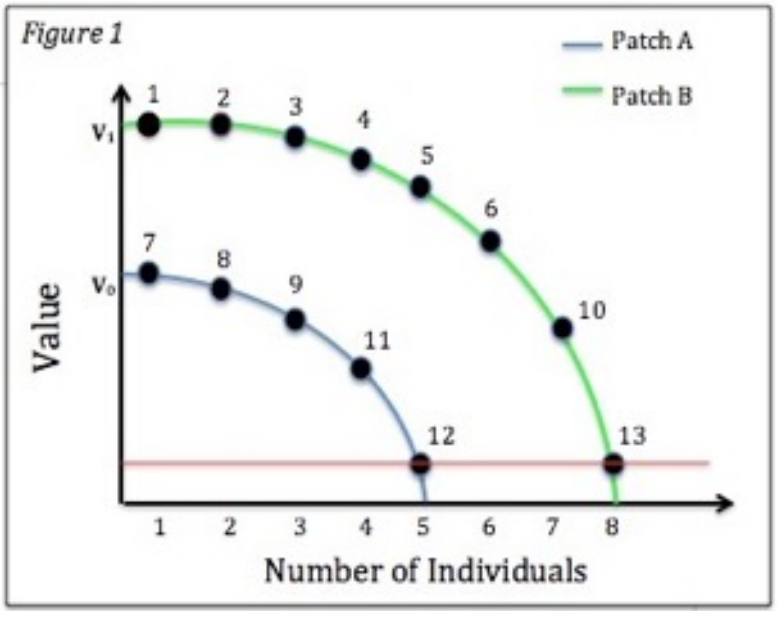
a.Patch A, blue line
b.Patch B, green line

3) According to this graph, by the time the two habitats show similar value (fitness outcomes), the populations at each site only differ by 3 individuals.



Select one:
True
False

4) Considering competitive fitness, an individual at point 7 occupying patch A would most likely be competitively _____ compared to an individual at point 1 occupying patch B. In other words who would most likely win if individual 7 fought with individual 1 in competition for habitat?



a.inferior, 1 wins
b.superior, 7 wins

5) Match the video with the topic best (or most) represented by that video
a) Parental conflict and Kin selection
Choose: Fringehead fish defends habitat/ Kangaroo joeys play fighting/ Wolves Sneaking off to mate
b) Resource Holding Potential
Choose: Fringehead fish defends habitat/ Kangaroo joeys play fighting/ Wolves Sneaking off to mate
c) Competitive strategies both innate and learned behavior
Choose.: Fringehead fish defends habitat/ Kangaroo joeys play fighting/Wolves Sneaking off to mate