

A bag contains 19 tickets numbered from 1 to 19. A ticket is drawn and then another ticket is drawn without replacement. The probability that both the tickets will show even number, is

(A) $\frac{9}{19}$

(B) $\frac{8}{18}$

(C) $\frac{9}{18}$

(D) $\frac{4}{19}$

Answer is (D) 4/19

The probability of getting an even number in first draw = $9/19$. The probability of getting an even number in second draw = $8/18$.

Both are independent event and so required probability = $9/19 \times 8/18 = 4/19$.