## Answer on Question \#81056 - Math - Statistics and Probability

## Question

Two sets of cards are placed into separate bags. Each card has one letter.

## Bag 1: IL J A U <br> Bag 2: LRHECA

Amna randomly picked one card from each bag. Find the probability that:
i. She picked the letters ' $U$ ' and ' $H$ '.
ii. Both letters are 'L'.
iii. Both letters are vowels

Solution
i. The probability that she picked ' $U$ ' and ' $H$ '

$$
P(U \& H)=\frac{1}{5} \times \frac{1}{6}=\frac{1}{30}
$$

ii. The probability that both letters are 'L'

$$
P(L \& L)=\frac{1}{5} \times \frac{1}{6}=\frac{1}{30}
$$

iii. The probability that both letters are vowels: 'A', 'E', 'I', 'O', 'U'

$$
P(\text { both vowels })=\frac{3}{5} \times \frac{2}{6}=\frac{1}{5}
$$

