

There are five bags each containing identical sets of ten distinct chocolates. One chocolate is picked from each bag. The probability that at least two chocolates are identical is _____

- A) 0.3024
- B) 0.4235
- C) 0.6976
- D) 0.8125

Answer: (C) 0.6976

Solution:

To find the probability that no two chocolate are identical = $P(Y)$

To find the probability that at least two chocolates are identical = $P(x)$:

Formula:

$$P(x) = 1 - P(Y)$$

Calculation

No two chocolates identical:

From 1st bag = Probability = 10/10

From 2nd bag = Probability = 9/10

From 3rd bag = Probability = 8/10

From 4th bag = Probability = 7/10

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From 5th bag = Probability = 6/10

$$P(Y) = 1(0 \times 9 \times 8 \times 7 \times 6) / (10 \times 10 \times 10 \times 10 \times 10) = 0.3024$$

$$P(x) = 1 - P(Y) = 1 - 0.3024 = 0.6976$$

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