

### Group (D)

Q/We are given two urns as follows:

**Urn A** contains **5** red, **7** pink and **8** blue balls, **Urn B** contains **3** red, **6** pink and **4** blue balls. **An urn is selected at random**, a ball is drawn and put into the other urn, and then a ball is drawn from the second urn.

- 1- Find the probability that **both** balls drawn are of the **same color**.
  - 2- Find the probability that **both** balls drawn are of the **red color**.
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**Group (E)**

**Q/Urn A** contains **6** black, **5** pink and **8** red marbles, **Urn B** contains **7** black, **4** pink and **5** red marbles, and **Urn C** contains **7** black, **6** pink and **5** red marbles. **(1)** If a marble is drawn from **each urn**, what is the probability that **all** of the **same color**? **(2)** If **two** marbles are drawn from **each urn**, what is the probability that **all six** marbles are of the **same color**? **(3)** If we select a **Urn** at random and then draw a marble at random. What is the probability that a marble is a **black**?

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