

## **SOLUTION (Find the Probability)**

**The possible draws that allow division by 5 are given by:**

**1,2,2 in any order with a sum of 5**

**2,4,4 in any order with a sum of 10**

**3,3,4 in any order with a sum of 10**

**Note that there are three possibilities of ordering each of the draws. The following is a calculation of the probability.**

$$P_{total} = \left( \frac{1}{10} \frac{2}{9} \frac{1}{8} + \frac{2}{10} \frac{4}{9} \frac{3}{8} + \frac{3}{10} \frac{2}{9} \frac{4}{8} \right) (3) = \frac{5}{24}.$$