

**Answer on Question #55128 – Math – Statistics and Probability**

True or False? Justify.

Number of samples chosen by SRSWOR and SRSWR are same if population size is 6 and sample size is 2.

**Solution**

If n units are selected by SRSWOR, the total number of possible samples are:

$$\binom{N}{n}.$$

When n units are selected with SRSWR, the total number of possible samples are

$$N^n.$$

In our case

$$\binom{6}{2} = \frac{6!}{2!4!} = 15,$$

$$6^2 = 36.$$

So, it is False.

**Answer:** False.