

**Answer on Question #54872 – Math – Statistics and Probability**

A sample of size 3 is to be selected from a population of 10 households. List all possible samples by linear systematic sampling.

**Solution**

Sampling interval is

$$k = \frac{10}{3} = 3.33.$$

We consider  $k = 3$ .

All possible samples by linear systematic sampling are

(1,4,7),

(2,5,8),

(3,6,9),

(4,7,10).