**Here is the LIST: 1 2 3 4 5 6 7 8 9 10**

**1. Select 2 units from the list (f = 2 / 10)**

Interval = 10 / 2 = 5

Random start (1-5) = 3

Selections: \_\_\_ \_\_\_\_  **3, 8**

**2. Select 4 units from the list (f = 4 / 10)**

Interval = 10 / 4 = 2.5

What to do?

a. If it is ok to take extra selections, **round down**

Interval = 2

Random start (1-2) = 2

Selections: \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_  **2,4,6,8,10**

b. **First** drop 2 at random, then pick 4.

Two random numbers (1-10) = 3 and 10

Remaining units on the list:

\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_  **1,2,4,5,6,7,8,9**

New interval = \_\_ 2

Random start (1-2) = 1

Selection numbers: \_\_\_ \_\_\_ \_\_\_ \_\_\_  **1,3,5,7**

Selected units: \_\_\_ \_\_\_ \_\_\_ \_\_\_  **1,4,6,8**

Probability of selection = \_\_\_/10 \* 4/8 = \_\_  **8/10 \* 4/8 = 4/10**

**c. Use fractional intervals; truncate selection numbers**

Interval = 2.5

Random start (.1 - 2.5) = 1.5

Selection numbers: 1.5 \_\_\_ \_\_\_ \_\_\_  **1.5, 4.0, 6.5, 9.0**

Selected units: \_\_\_ \_\_\_ \_\_\_ \_\_\_ **1, 4, 6, 9**

Interval = 2.5

Random start (.1 - 2.5) = .5

Selection numbers: .5 \_ \_ \_ \_  **.5, 3.0, 5.5, 8.0, 10.5**

Selected units: \_\_\_ \_\_\_ \_\_\_ \_\_\_  **3, 5, 8, 10**