

# Assignment 3

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**Abstract**—This document contains the solution for Assignment 3 (CBSE Class 9 Chapter 14 (Probability) Example 3

**Example 3:** 100 plants each were planted in 100 schools during Van Mahotsav. After one month, the number of plants that survived were recorded as :

95	67	28	32	65	65	69	33	98	96
76	42	32	38	42	40	40	69	95	92
75	83	76	83	85	62	37	65	63	42
89	65	73	81	49	52	64	76	83	92
93	68	52	79	81	83	59	82	75	82
86	90	44	62	31	36	38	42	39	83
87	56	88	23	35	76	83	85	30	68
69	83	86	43	45	39	83	75	66	83
92	75	89	66	91	27	88	89	93	42
53	69	90	55	66	49	52	83	34	36

TABLE I

*Prepare a grouped frequency distribution table to represent the above raw data, and hence find class width and number of schools with more than 50% plants survived.*

**Solution:**

Number of plants	Frequency
20-29	3
30-39	14
40-49	12
50-59	8
60-69	7
70-79	18
80-89	23
90-99	12
Total	100

TABLE 1: Group frequency distribution table

Class width = 10

Number of schools with more than 50% plants survived =  $8 + 18 + 10 + 23 + 12 = 71$