

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

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 survived	Tally Marks	Number of schools (frequency)
20 - 29		3
30 - 39		14
40 - 49		12
50 - 59		8
60 - 69		18
70 - 79		10
80 - 89		23
90 - 99		12

TABLE 1: Group frequency distribution table

Class width = 10

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