

Stratified Sampling

CalculatorResultsHelp

Global Parameters

Desired Precision (d):

5

Z-value (95% CI = 1.96):

1.96

Stratum 1

Population (N):

1000

Variance (σ^2):

100

Cost per unit:

10

Time per unit:

5

Stratum 2

Population (N):

1500

Variance (σ^2):

200

Cost per unit:

15

Time per unit:

8

Stratum 3

Population (N):

2000

Variance (σ^2):

150

Cost per unit:

12

Time per unit:

6

Calculate Sample Allocations

Stratified Sampling

CalculatorResultsHelp

9

Proportional Total

25

Neyman Total

25

Optimised Total

Proportional Allocation

Stratum	Allocation
1 Stratum 1	2
2 Stratum 2	3
3 Stratum 3	4

Neyman Allocation

Stratum	Allocation
1 Stratum 1	5
2 Stratum 2	9
3 Stratum 3	11

Optimised Allocation

Stratum	Allocation
1 Stratum 1	5
2 Stratum 2	9
3 Stratum 3	11

Cost & Time Comparison

Method	Total_Samples	Total_Cost	Total_Time
Proportional	9	113	58
Neyman	25	317	163
Optimised	25	317	163