

Solution 1 – Sample Size Calculation

Total Defectives	25
Total Volume	30

Confidence @ 95%	1.96
Precision (1 /10th of proportion def)	0.083333
Proportion Defective	0.833333
Sample size	76.832

- 👉 Team collects 30 data points first
- 👉 Out of 30, 25 are defectives (more than 30 mins)
- 👉 Use sample size calculator and enter this data
- 👉 Sample size = 76
- 👉 Team decides to collect 90 data points. (30 is available, so they will collect 60 more)