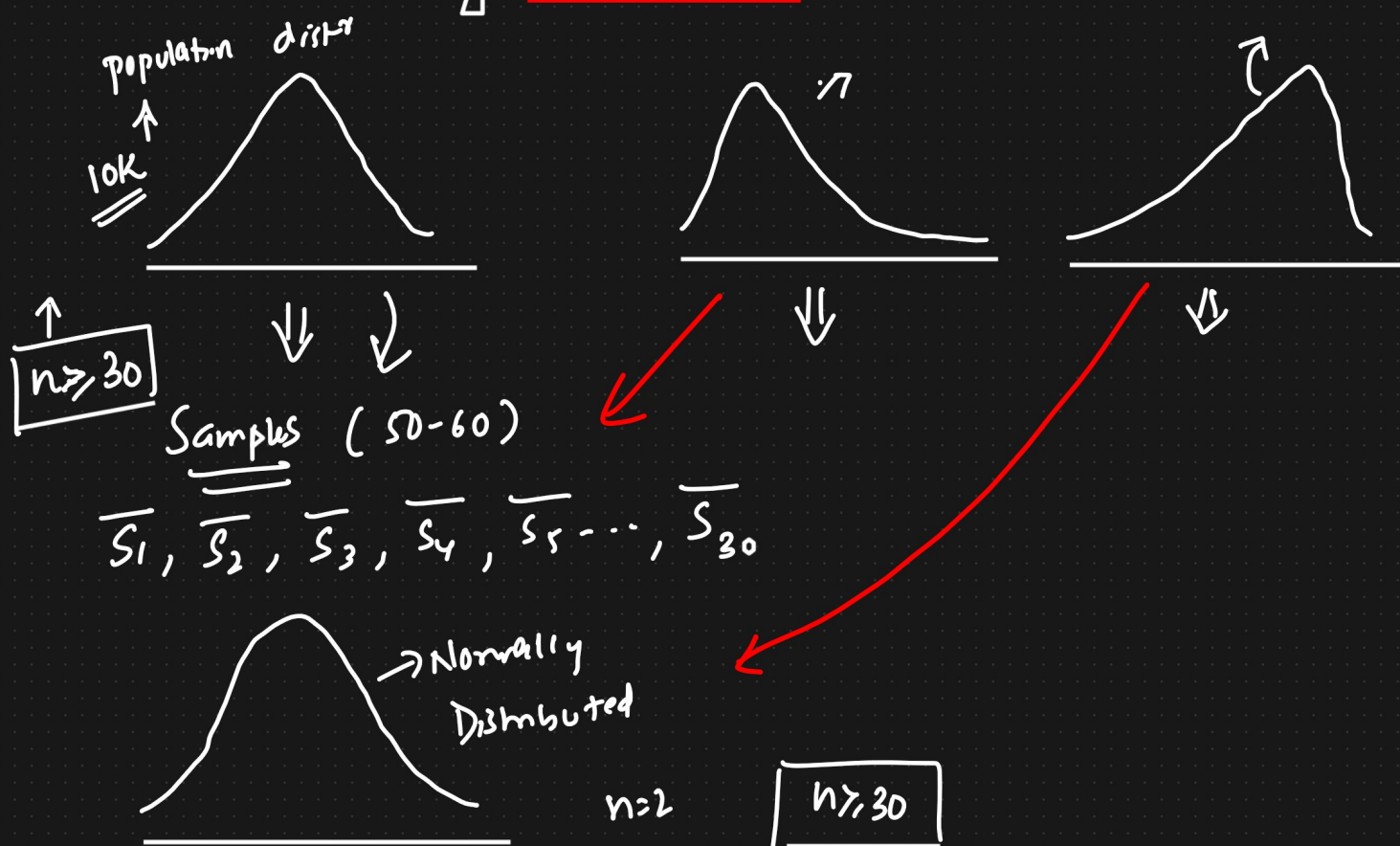# Central Limit Theorem

The CLT states that regardless of the shape of population distributions the distribution of sample means will be approximately normal.

population dist^n

10K

$n \geqslant 30$

Samples (50-60)

$\overline{S_1}, \overline{S_2}, \overline{S_3}, \overline{S_4}, \overline{S_5} \dots, \overline{S_{30}}$

→ Normally Distributed

$n=2$ $n \geqslant 30$

2 more Important Points In CLT

① The distribution of sample means will become more normal as its sample size increases

② Good rule thumb: Sample distribution will be approximately normal if their sample size is $n \geqslant 30$ ✓