The shape of sampling distribution of $\bar{X}$ with μ and standard deviation $\frac{\sigma}{\sqrt{n}}$

The shape of X is known.

No

Yes

X is normal.

No

$n \geq 30$

No

Yes

Yes

$\bar{X}$ Is always normal, and the probability can be obtained from the normal table.

$\bar{X}$ Is approximately normal, and the probability can be obtained from the normal table.

The shape of $\bar{X}$ cannot be described, and the probability cannot be obtained.