

## Identifying the Reference Distribution

Population	Variance	Sample Size	Reference Distribution	Test Statistic
Normal	Known	Any	$N(0,1)$	$\frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$
Normal	Unknown	Any	$t_{n-1}$	$\frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$
Any	Known	$\geq 30$	$N(0,1)$	$\frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$
Any	Unknown	$\geq 30$	$N(0,1)$	$\frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$