

**To construct a significance test:**

1. **Parameter(s)** - Identify the population(s) of interest and the parameter(s) you want to draw conclusions about.
2. **Hypotheses** - State null and alternative hypotheses in symbols and in words.
3. **Assumptions (Conditions)** - Verify conditions.
4. **Name** - Name the appropriate inference procedure.
5. **Test statistic** - If the conditions are met, calculate the test statistic.
6. **Obtain P-value** - Use the test statistic to calculate the P-value.
7. **Make decision** - Reject or fail to reject  $H_0$ .
8. **State conclusion in context** - State your conclusion in the context of the problem.

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