

# Inference Expectations (Scoring) <sup>AP</sup>

Each hypothesis test has 4 components scored as Essentially correct, Partially correct, or Incorrect.

V vs M	B vs G	Component
		<b>The Hypotheses</b> E - Writes the correct hypotheses using proper notation. P - Uses incorrect notation or tails. I - Hypotheses are missing or incorrect.
		<b>The Test</b> E - Cites random sample <10% of population, discusses independence, and checks normality with proper plots (two plots for boys vs girls, plot of differences for verbal vs math). P - Discussion of either independence or normality is incomplete. I - Misunderstands or omits the conditions.
		<b>The Mechanics</b> E - Identifies the correct procedure, shows the sample statistics and df, uses correct notation, shows the formula, and finds $t$ and the P-value (perhaps with minor arithmetic errors). P - Appears to be doing the proper procedure but omits important information, uses the wrong notation, or makes major errors in calculations. I - Uses the wrong procedure or shows no work or makes several major mistakes.
		<b>The Conclusion</b> E - Makes correct decision w/linkage to the P-value and states correct conclusion in context. P - Writes a conclusion that is correct but incomplete. I - Conclusion is incorrect or missing.

Comments:

### Scoring

- E's count 1 point, P's are 1/2
- AP score = 1/2 (sum of 8 components); rounding based on quality of "P" responses
- Grade: based on the sum of the components - 8 = A, 6 = B, etc.  
(Odd scores round up or down depending on overall thoroughness and quality of responses.)

Name \_\_\_\_\_

AP Score \_\_\_\_\_

Grade \_\_\_\_\_