

AP Stats Chapter 9 MCQ

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1. D; $0.02 < P < 0.05$
2. E; I, II, and III
3. B; Reject H_0 at $\alpha = 0.05$
4. D; A confidence interval gives a set of plausible values for the true proportion.
5. E; $H_0 : \mu = 72$; $H_a : \mu > 72$
6. A; Not finding convincing evidence that the mean pulse rate of agricultural students is greater than 72 bpm when in fact the mean pulse rate of agricultural students is greater than 72 bpm.
7. D; Assuming that the proportion of babies born in September is the same as in any other month, there is a 0.0056 probability of getting a sample proportion of 21/150 or greater by chance alone.
8. C; $np \geq 10$ and $n(1 - p) \geq 10$
9. D; 0.0127
10. C; There is sufficient evidence to conclude that $\mu \neq 60$.