AP Stats Chapter 10 MCQ

Henry Beveridge

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- 1. A; Shape = approximately normal, mean = 0.15, standard deviation = 0.07

 - 2. B; $H_0: \hat{p}_1 \hat{p}_2 = 0$; $H_a: \hat{p}_1 \hat{p}_2 > 0$ 3. A; $z = \frac{0.56 0.527}{\sqrt{\frac{0.56(0.44)}{250} + \frac{0.527(0.473)}{300}}}$ 4. B; The distribution of differences (before after) must be approximately
- Normal.
 - **5.** B; t = 1.027
 - 6. C; Two-sample t interval
- 7. A; Both dotplots are roughly symmetric. There are no outliers in either
 - 8. C; $H_0: \mu_1 = \mu_2; H_a: \mu_1 \neq \mu_2$
- **9.** E; We fail to reject H_0 : we do not have convincing evidence that the mean carbohydrate contents are different. $\,$
 - **10.** B; $(6.41 5.20) \pm 2.262 \sqrt{\frac{25}{10} + \frac{225}{15}}$