1. The pesticide diazinon is in common use to treat infestations of the German cockroach, *Blattella germanica*. A study investigated the persistence of this pesticide on various types of surfaces. Researchers applied a 0.5% emulsion of diazinon to glass and plasterboard. After 14 days, they randomly assigned 72 cockroaches to two groups of 36, placed one group on each surface, and recorded the number that died within 48 hours. On glass, 18 cockroaches died, while on plasterboard, 25 died. Construct and interpret a 90% confidence interval for the difference in the proportion of cockroaches that die on each surface.

State: Our parameters of interest are
p_1 = the proportion of all cockroaches similar to those in the study that die on plasterboard and
p_2 = the proportion of all cockroaches similar to those in the study that die on glass
We want to estimate the difference $p_1 - p_2$, at a 90% confidence level.

Plan: We should use a 2-sample z-interval for $p_1 - p_2$.
        Random: Cockroaches were randomly assigned to one of the two treatment groups, plasterboard or glass.
        Large Counts/Normal: Number of successes and failures in the two groups are 25, 11, 18, and 18, all of which are at least 10, it is safe to do Normal calculations.
        10%: Since no sampling took place, the 10% condition does not apply.

$\hat{p}_1 = \frac{25}{36} = 0.694$ and $\hat{p}_2 = \frac{18}{36} = 0.5$

Do: $(\hat{p}_1 - \hat{p}_2) \pm z^* \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}} = (0.694 - 0.5) \pm 1.645 \sqrt{\frac{0.694(1-0.694)}{36} + \frac{0.5(1-0.5)}{36}} = (0.00807, 0.38082)$

Conclude: We are 90% confident that the interval from 0.00807 to 0.38082 captures the true difference in the proportion of cockroaches that die on glass *versus* the proportion that die on plasterboard.

For # 2 – 5, choose the correct procedure.

a) Paired t Test for μ_d
b) Two-Sample z Interval for a Difference between Two Proportions
c) Two-Sample z Test for a Difference between Two Proportions
d) Two-Sample t Interval for a Difference between Two Means
e) Two-Sample t Test for a Difference between Two Means

2. A study of "adverse symptoms" in users of over-the-counter pain relief medications assigned subjects at random to one of two common pain relievers: acetaminophen and ibuprofen. In all, 650 subjects took acetaminophen, and 44 experienced some adverse symptom. Of the 347 subjects who took ibuprofen, 49 had an adverse symptom. Estimate the true difference in the proportions of people who experience adverse reactions to these two mediations.
b) Two-Sample z Interval for a Difference between Two Proportions

3. As the Hispanic population in the United States has grown, businesses have tried to understand what Hispanics like. One study interviewed a random sample of customers leaving a bank. Customers were classified as Hispanic if they preferred to be interviewed in Spanish or as Anglo if they preferred English. Each customer rated the importance of several aspects of bank service on a 10-point scale. Here are summary results for the importance of "reliability" (the accuracy of account records and so on):

Group	n	$\bar{x}$	s_x
Anglo	92	6.37	0.60
Hispanic	85	5.91	0.93

What inference procedure would you use to estimate the difference between the mean ratings of the importance of reliability for Anglo and Hispanic bank customers?
d) Two-Sample t Interval for a Difference between Two Means

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   The Practice of Statistics Dan Yates,David S. Moore,Daren S. Starnes,2003 Combining the strength of the data analysis approach and the power of technology the new edition features powerful and helpful new media supplements enhanced teacher support materials and full integration of the TI 83 and TI 89 graphing calculators   **The Practice of Statistics** Daren S. Starnes,Dan Yates,David S. Moore,2010-12-17 View a Panopto recording of textbook author Daren Starnes detailing ten reasons the new fourth edition of The Practice of Statistics is the right choice for the AP Statistics course Watch instructor video reviews here Available for your Fall 2010 Course Request Sample Chapter 3 here The most thorough and exciting revision to date The Practice of Statistics 4e is a text that fits all AP Statistics classrooms Authors Starnes Yates and Moore drew upon the guidance of some of the most notable names in AP and their students to create a text that fits today s classroom The new edition comes complete with new pedagogical changes including built in AP testing four step examples section summaries Check Your Understanding boxes and more The Practice of Statistics long stands as the only high school statistics textbook that directly reflects the College Board course description for AP Statistics Combining the data analysis approach with the power of technology innovative pedagogy and a number of new features the fourth edition will provide you and your students with the most effective text for learning statistics and succeeding on the AP Exam

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