

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, 13 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, 13, 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.

$$\hat{p}_1 = \frac{25}{36} = 0.694 \quad \text{and} \quad \hat{p}_2 = \frac{13}{36} = 0.3$$

Do:
$$(\hat{p}_1 - \hat{p}_2) \pm z^* \sqrt{\frac{\hat{p}_1(1 - \hat{p}_1)}{n_1} + \frac{\hat{p}_2(1 - \hat{p}_2)}{n_2}} = (0.694 - 0.3) \pm 1.645 \sqrt{\frac{0.694(1 - 0.694)}{36} + \frac{0.3(1 - 0.3)}{36}} = (0.00807, 0.38082)$$

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.

- Paired *t* Test for μ_d
- Two-Sample z Interval for a Difference between Two Proportions
- Two-Sample z Test for a Difference between Two Proportions
- Two-Sample *t* Interval for a Difference between Two Means
- 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 a cetaminophen, 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 medications.

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	<i>n</i>	\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

Statistics Chapter 10 Answers

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