Questions on lesson 2.4?

We will be having our concept

mastery quiz shortly on a 95%

C.I. and statistical significance.

Feb 27-8:47 AM

SM3H Ch 2 - Student Text.pdf - Adobe Reader

File   Edit   View   Window   Help

42 / 62   106%

Tools   Sign   Comment

View or add comments

7. The local water company also conducted a survey of 120 people which they said showed that people prefer tap water over Whatta Water. Forty-one of the respondents said Whatta Water tastes better.

a. Use a 95% confidence interval to determine a range of values for the population proportion of people who prefer Whatta Water. Explain your work.

The assumption again is that the results will be 50% if there is no difference between the two kinds of water.

$$\hat{p} \pm 2\left(\sqrt{\frac{\hat{p}(1-\hat{p})}{r}}\right)$$

categorical

$$\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

$\hat{p}$ is sample proportion

n is sample size

continuous

$$\frac{s}{\sqrt{n}}$$

$$mean \pm 2\left(\frac{s}{\sqrt{n}}\right)$$

original

s is standard deviation

n is sample size

b. Use the sample proportion and standard deviation of the sampling distribution to label the horizontal axis of the normal curve.

Sep 28-11:54 AM

Content Mastery Quiz - lesson 2.4

Show ALL work to receive full points

A sample of 75 taxi riders were asked how much their trip cost. The sample mean was $23.75 and the sample standard deviation was $1.20.

$$\sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad OR \quad \frac{s}{\sqrt{n}}$$

1) Determine the range of values for a 95% C. I. for the data.

2) If a ride cost $24.00, is this statistically significant or not?

Statistics Review

Aug 24-2:00 PM