

DAILY ASSESSMENT FORMAT

Date:	29/07/2020	Name:	PAVITHRAN S
Course:	Coursera	USN:	4AL17EC068
Topic:	Basic statistics	Semester & Section:	6th sem 'B' sec
Github Repository:	Pavithran		

FORENOON SESSION DETAILS

Image of session

The screenshot shows a web browser displaying a Coursera lecture page. The browser's address bar shows the URL: coursera.org/learn/basic-statistics/lecture/ORpit/6-01-statistical-inference. The page title is "6.01 Statistical Inference". On the left, there is a sidebar with a list of topics: "Inference and confidence interval for mean", "Reading: Inference and confidence interval for mean", "Video: 6.01 Statistical Inference", "Video: 6.02 CI for mean with known population sd", "Video: 6.03 CI for mean with unknown population sd", "Confidence interval for proportion and confidence levels", and "Sample size and example". The main content area features a video player with a black background and white text. The text reads: "probability that interval contains population value", followed by a downward arrow, "confidence level", another downward arrow, "most cases 0.95", and a third downward arrow, "confidence interval". The video player has a progress bar at the bottom showing 3:43 / 3:56. On the right, there is a "Notes" panel with a "Save Note" button and a "Discuss" button. The bottom of the page shows a Windows taskbar with various icons and the system clock displaying 12:35 on 28-07-2020.

Courses for Students | Courses | Confidence intervals | Courses

courses.org/learn/basic-statistics/exams/TKKJ/confidence-intervals/attempt0/redirectToCover=true

← Confidence intervals Graded Quiz - 23 min Due Aug 23, 11:59 PM PDT

✓ Congratulations! You passed!
TO PASS: 80% or higher

Keep Learning

GRADE
100%

Confidence intervals

LATEST SUBMISSION GRADE
100%

1. You want to know how many hours of sleep new parents lose after they had their first baby. You know that the population mean equals 2.3 hours. Because you can't investigate the whole population, you take a sample of 100 people. You find an average sleep loss of 2.1 hours. What is, based on this sample, the point estimate of your population mean? 1 / 1 point

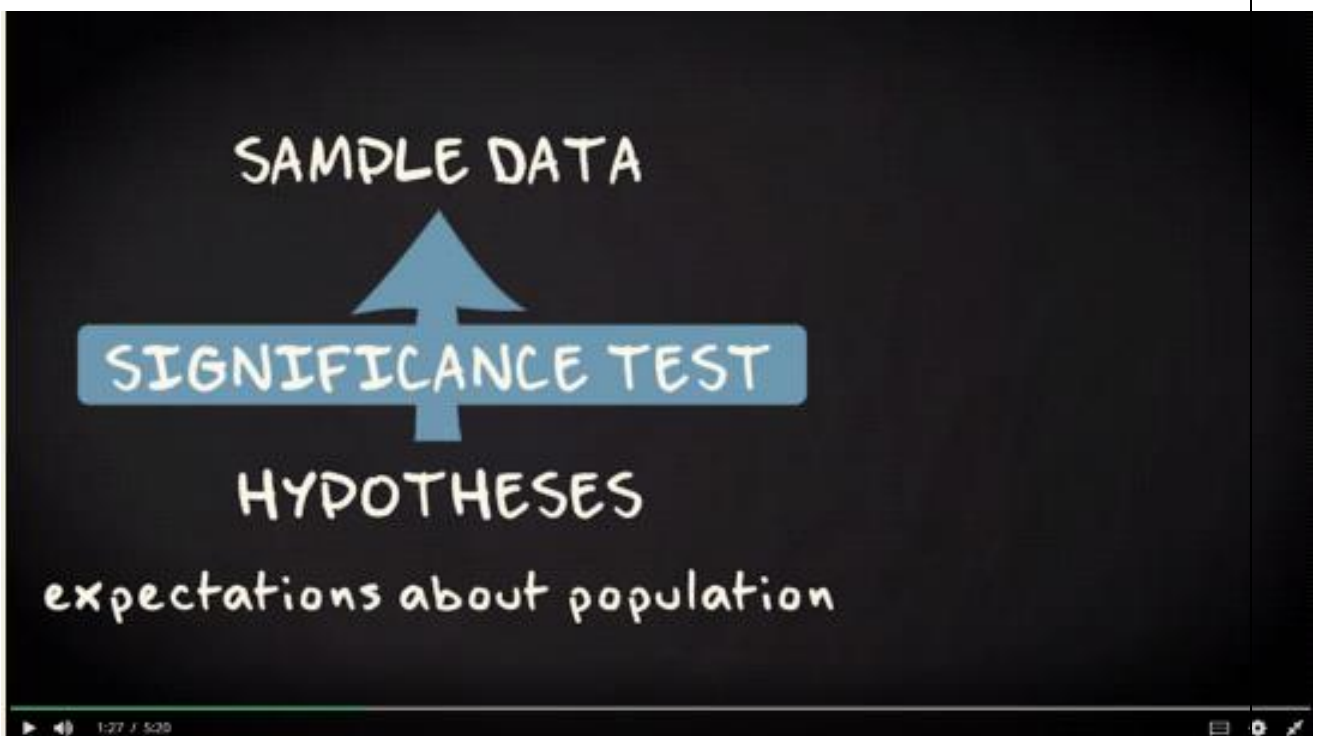
☒ 2.1

☐ 5.4

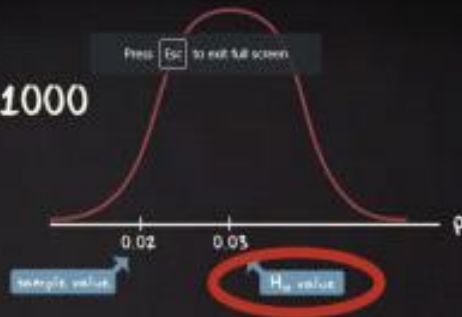
☐ 0.2

☐ 2.3

Windows taskbar: 12:55 28-07-2020



$n = 1000$



$$\text{test statistic} = z = \frac{p - \pi_0}{se_0}, \text{ where } se_0 = \sqrt{\frac{\pi_0(1 - \pi_0)}{n}}$$

H_0 value

$$\text{test statistic} = z = -1.85, \text{ where } se_0 = 0.005$$