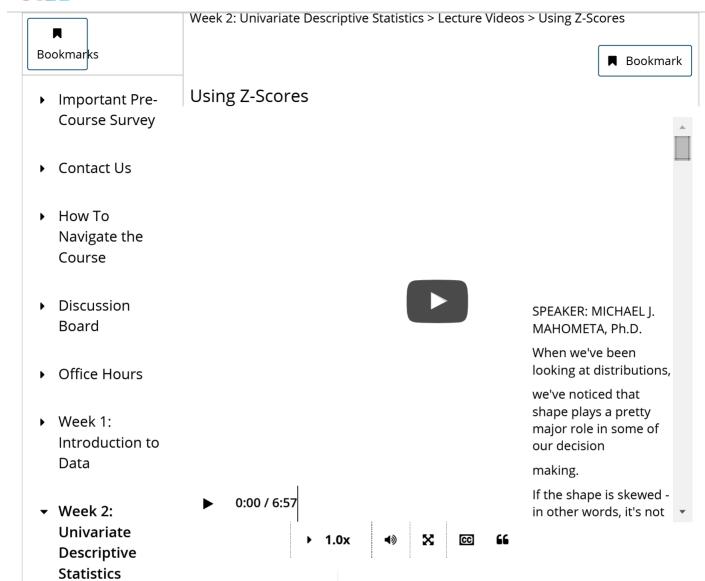


UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1



Readings

Reading Check due Mar 15, 2016 at 18:00 UTC

Lecture Videos

Comprehension Check due Mar 15, 2016 at 18:00 UTC

R Tutorial Videos

Pre-Lab

Pre-Lab due Mar 15, 2016 at 18:00 UTC

Lab

Lab due Mar 15, 2016 at 18:00 UTC

Problem Set

Problem Set due Mar 15, 2016 at 18:00 UT

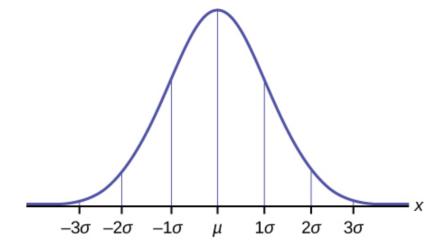
Comprehension Check

.srt

Download transcript

A full-term baby in the US weighs, on average, 7.5 pounds. Birth weights are normally distributed, with a standard deviation of 1.1 pounds. Sketch this distribution and use your sketch to help you answer the following questions.

- Week 3: Bivariate Distributions
- Week 4:
 Bivariate
 Distributions
 (Categorical
 Data)



Using the EMPIRICAL RULE, we can say that:

(3/3 points)

68% of all full-term babies weigh

- between 6.4 and 8.1 pounds.
- between 6.4 and 8.6 pounds.
- between 5.9 and 8.6 pounds.
- between 5.9 and 8.1 pounds.

95% of all full-term babies weigh

- between 5.3 and 9.7 pounds.
- between 6.2 and 10.1 pounds.
- between 6.2 and 9.7 pounds.
- between 5.3 and 10.1 pounds.

99.7% of all full-term babies weigh

between 3.7 and 10.5 pounds.

o between 3.7 and 10.8 pounds.
O between 4.2 and 10.5 pounds.
● between 4.2 and 10.8 pounds. ✔
A distribution has a σ = 4. Find the z-score for a score that is:
(4/4 points) 4 points above the mean: z =
1
1
12 points above the mean: z =
3
2 points below the mean: z =
-0.5 ✔
$\boxed{-0.5}$
8 points below the mean: z =
-2
-2
With a height of 75 in., Lyndon Johnson was the tallest

With a height of 75 in., Lyndon Johnson was the tallest president in the 20th century. Presidents of the past century have heights with a mean of 71.5 in. and a standard deviation of 2.1 in.

With a height of 85 in., Shaquille O'Neal was the tallest player on the Miami Heat basketball team. Basketball players for the Miami Heat during 2004 to 2008 had heights with a mean of 80.0 in. and a standard deviation of 3.3 in. (3/3 points) What is the z-score for Lyndon Johnson? (Round to 2 decimal places.) 1.67 **Answer:** 1.67 1.67 What is the z-score for Shaquille O'Neal? (Round to 2 decimal places.) 1.52 Answer: 1.52 1.52 Who is relatively taller among their respective groups: Lyndon Johnson or Shaquille O'Neal? Lyndon Johnson Answer: Lyndon Johnson (1/1 point) Which of the following is NOT a characteristic of a Normal Distribution? • Half the data values are positive, and half the data values are negative. The center value of the distribution is the mean, median and mode. The distribution is bell-shaped and unimodal. The scores are symmetrical around the mean.

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