

Week 5: Exploring Data

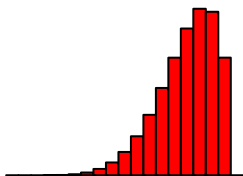
Session 1

Spring 2020

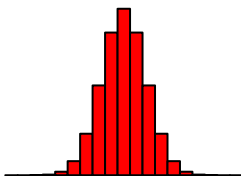
iClicker quiz: Question 1

Which of the following appears Normally-distributed?

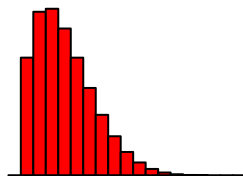
A



B



C



i▶clicker®

iClicker quiz: Question 2

What is the **median** value of the following sequence of numbers?

5, 5, 6, 6, 8, 8, 9, 10, 10, 13, 14, 14, 21

- A 11
- B 9.5
- C 8
- D 9
- E 10



iClicker quiz: Question 3

What is the **3rd Quartile**, also known as the **75th percentile**, rounded to the nearest integer, of the following sequence of numbers?

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

A 6

B 7

C 9

D 11

E 12



Announcements

Salamander groups

- ▶ **Some students were not included in salamander description groups.**
- ▶ **Please verify your group membership and check the Moodle gradebook.**

Bear peer-feedback forms

- ▶ Extended until tomorrow night.
- ▶ Future peer-feedback form deadlines will be enforced.

Announcements

This is a short week.

Chapter 4 has a lot of important information.

We'll continue chapter 4 materials into next week.

The pre-class exercises for next week will include reading questions from chapters 4 and 5.

Short lecture today: I want to have time for the in-class group activity.

Questions from the salamander exercise:

- ▶ What is SVL?
- ▶ Why is there a \$ in mander?
- ▶ How is *central tendency* related to the *spread*?
- ▶ How do we define *quartiles*?
- ▶ Loading data files into R
- ▶ In-class R instruction

Sample Statistics

What are two ways to summarize a collection of numbers?

- ▶ Central tendency
- ▶ Dispersion

Why do we call these *statistics*?

Distributions

What are key features of the **Normal Distribution**?

What is the **Uniform Distribution**?

Group Activity: Random numbers

Self-select groups of 3 or 4.

Follow the instructions on Moodle.

Submit a single report for the group.