

Chapter 10 - Statistics

9/13/2012

Today's Agenda

- Complete the Ticket-In Problems and hand it in when you are done
- Discuss prior knowledge needed for circle graph created by hand compared to the prior knowledge needed for those created on computer
- Check your textbook assignment
- Notes for Section 10-3
- Start Activity 5: Finger-Snapping Time in your Lab Packet pp. 11-13

Lab for Sections 10-1 & 10-2

What prior knowledge is needed for the graphs created on computer?

They need to know how to enter the data into the correct spots. They need to know how to read the different graphs. *Appropriate labels, type of graph, computer skills*

What questions can you ask to connect the data to the computer's representation?

Notes for Sect. 10-3 Measures of Central Tendency and Variation 9/13

1) If Jacie had a 80% average on her first two tests, then what does she need to earn on her third test so that she raises her test average to an 84%? (Assume each test is weighted equally)

$$\frac{80 + 80 + x}{3} = 84$$

$$160 + x = 252$$

$$x = 92$$

Let $x = 3^{rd}$ exam

2) Which class has a greater standard deviation on the first quiz?

Noon: 15, 13, 10, 13, 17, 19, 12.5, 14, 17, 11, 11.5, 13

1:30 Class: 15, 18, 12, 13, 19, 18, 17, 15, 13.5, 17

$$\text{mean} = \frac{166}{12}$$

$$\bar{x}_2 = \frac{157.5}{10} \approx 15.75 \quad \bar{x}_1 \approx 13.8$$

Noon class has a larger standard deviation, because there are more values farther from the mean than the 1:30 class

3. Create a box plot for the following hour pay rates:

\$7.5, \$8, \$7.75, \$8, \$9, \$8.5, \$7.75, \$20, \$10

5, 7.5, 7.75, 7.75, 8, 8.5, 9, 10, 20

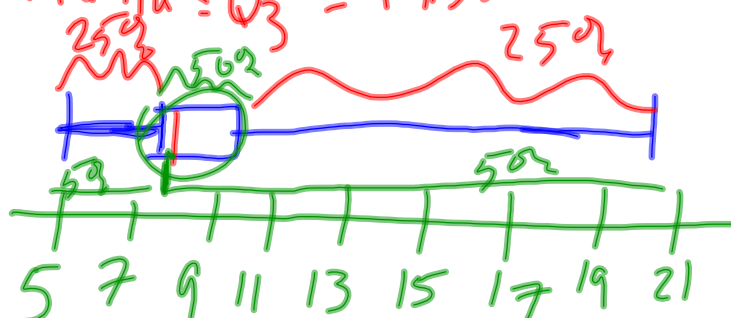
Min = \$5

Max = \$20

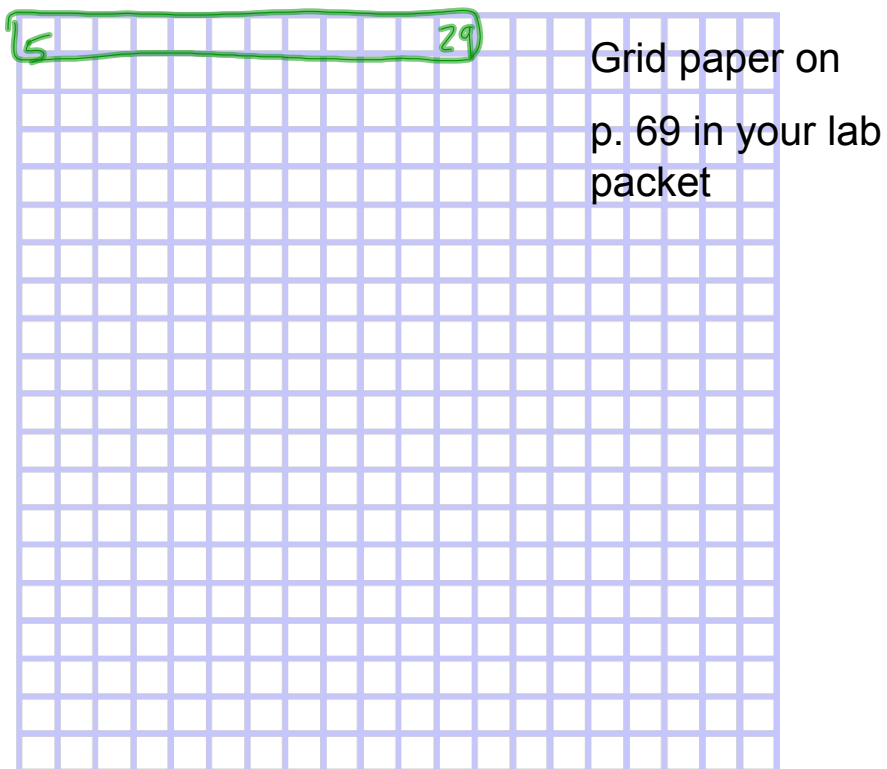
Median = \$8

Lower Quartile = $Q_1 = 7.63$

Upper Quartile = $Q_3 = 9.50$



- Activity 5: Finger-Snapping Time, pp. 11-13 in your Lab Packet



Assignment due 9/18

Read pp. 630-650 complete the [Vocabulary in section 10.3](#)

watch KhanAcademy's [Statistics The Average video](#)

Finish Activity 5: Finger Snapping Time Lab pp. 11- 13

Try This 10-8 on p. 635

10.3A #1, 2, 4, 15, 17, 19 a-d on pp. 651-652

Connections 10-3 #1-3, 19, 22, 23 on pp. 654-656

Chapter 9 Review #13, 20, 24, 25, 27a & c, 29 on pp. 589-590

