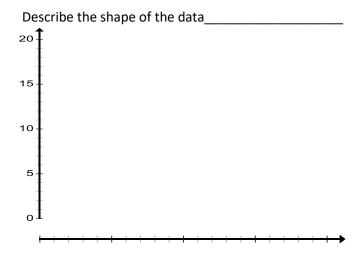
Name	Harm
Name	Hour

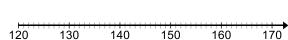
Chapter 6 Modeling Data Practice Test

For questions 1-4 use the following information. Customers at the local food court:

141, 128, 132, 141, 152, 169, 121, 133, 131, 156, 142, 136, 135, 144, 135, 153.

- 1. Use the data to make a frequency table. Use intervals of 10.
- 2. Draw a Histogram for the given information with an interval of 10.
- 3. Draw a Box-and-Whisker Plot for the given information.





4. Using the given information, determine the following:

Mean:_____

Standard Deviation:_____

Median:_____

Which measure of central tendency is the best?

Mode:

Why?

Range:_____

Interquartile Range:_____

5. Describe the shape of the distribution.

5a._____

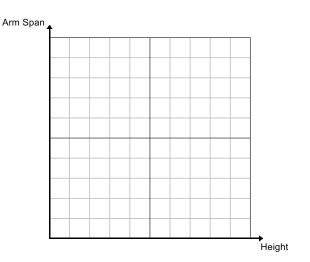
a) Linterval

b) Luterval

5b._____

Use the data below for questions 6-9.

Heights and Arm Spans							
Height (m)	1.5	1.8	1.7	2.0	1.7	2.1	
Arm Span (m)	1.4	1.7	1.7	1.9	1.6	2.0	



6. Make a scatter plot of the data above. Draw a line of best fit. Determine 6._______
if the relationship has Positive, Negative or no correlation.

7. Write the linear function for the line of best fit.

- 7.
- 8. What is the correlation coefficient (r) for your linear regression?
- 8.____

What does this mean?

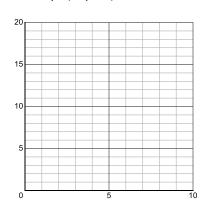
9. Predict the arm span of someone who is 2.2m tall.

9.

10.	For the	given	information	below.	is a	linear	regression	01
-0.		0.10.		20.011,				٠.

exponential regression best? Why? (6 pts.)

Υ
4.1
5.4
7.3
9.93
13.51
17.9
24.6



11. Write the equation that best fits the information above.

11._____

State the correlation coefficient (r). (6 pts.)

12. If x=10, predict y using your equation.

12. _____

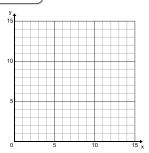
13. For the given information below, is a linear regression or exponential regression best? Why? (6 pts)

13. _____

Ryan practices throwing darts. From each distance listed below, he throws 10 darts and records how many times he hits the center.

Distance (in feet)	2	5	7	8	10	12	15
Number of Center Hits	10	9	8	6	5	1	2

14. Make a scatter plot of the data. Draw the trend line. (4 pts)



15. Write the equation that best fits the information above. State the correlation coefficient (r). (6 pts)

- 15._____
- 16. How many hits do you estimate Ryan would make from 9 feet? (6 pts)
- 16.