

:Lab Why did LeBron choose Miami?!

Name: _____ Class: _____ Date: _____

Background:

Directions: Read the information below and answer the follow up questions.

LeBron James was an American professional basketball player for the Miami Heat of the National Basketball Association (NBA). Nicknamed "King James", he was a three-time "Mr. Basketball" of Ohio in high school. Right out of high school- at just 18, he was selected as the number one pick in the 2003 NBA Draft by the Cleveland Cavaliers and signed a shoe contract with Nike before his professional debut. He was named the NBA Rookie of the Year in 2003–04, NBA Most Valuable Player in 2008–09 and 2009–10, and has been both All-NBA selection and an All-Star every season since 2005. In 2010, James was a free agent and created quite the stir with many teams vying for him to come to their cities. His 2010 much-publicized free agency process ended with James going to the Miami Heat. In this lab, we're going to figure out reasons why LeBron should and should not have made his "decision."



1. Identify one thing that happened to LeBron James, right out of high school, at the age of 18. [1]

2. Describe the big stir around LeBron James in 2010. [1]

Make a Hypothesis:

Directions: Why do you think LeBron chose Miami? Formulate 1 hypothesis. [1]

Investigate: Was it the money??

Some of you may have thought that Lebron moved to Miami to make more money.

During the 03-04 season Lebron made \$4 million, during the 04-05 season he made \$4.3 million, during the 05-06 season he made \$4.6 million, during the 06-07 season he made \$5.8 million, during the 07-08 season he made \$13 million, during the 08-09 season he made \$14.4 million, during the 09-10 season he made \$15.8 million, and during the 10-11 season he will make \$14.5 million.

1. Organize this data by filling in the chart below [1]:

Lebron James Salary By Season

Season	Team	Salary
2003-2004	Cleveland	
2004-2005	Cleveland	
2005-2006	Cleveland	
2006-2007	Cleveland	
2007-2008	Cleveland	
2008-2009	Cleveland	
2009-2010	Cleveland	
2010-2011	Miami	

2. State the trend in Lebron's salary when he played for the Cavaliers (2003-2010). [1]

3. According to the data, did Lebron James go to Miami to make more money? Support your conclusion with data. [1]

Investigate: Why not the money??

Lebron is often quoted as saying there are much more important things in life than money. Kind of like what Kanye West said, "Having money's not everything—not having it is."

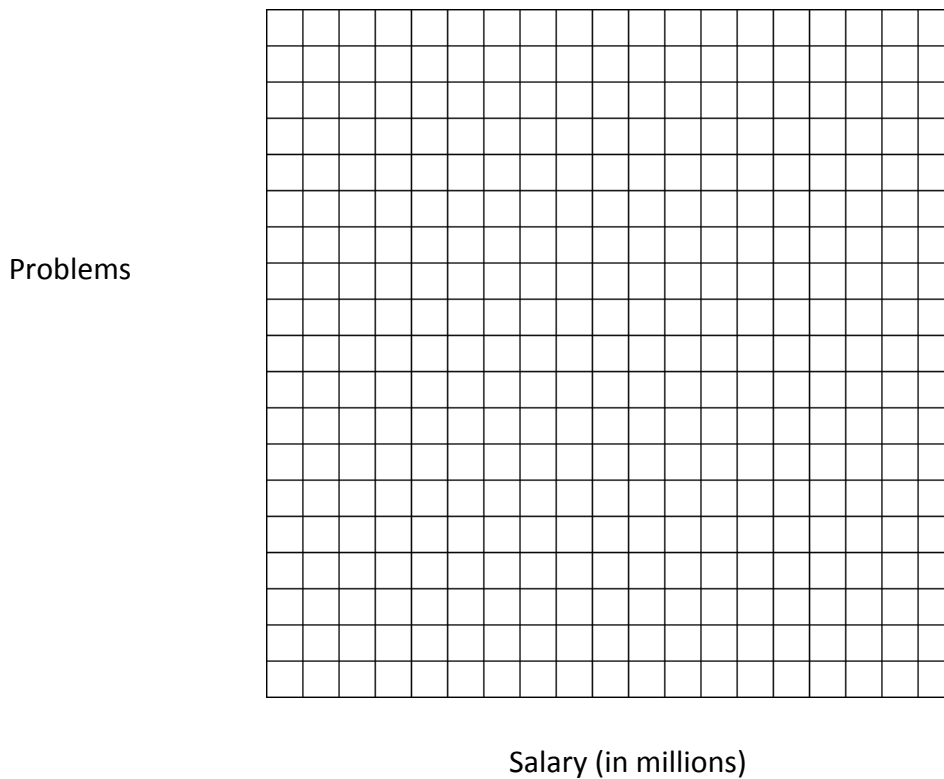
When you make more money, there are a lot of things you need to do to keep your finances in order; such as file and pay your taxes correctly, invest money, and put money away for retirement. The more money you make, the more complicated things get. In other words: more money, more problems. The data in the table below shows the number of problems related to a person's salary:

The Effects of Salary on # of Problems

Salary	Problems
\$1 million	4
\$ 2 million	8
\$5 million	16
\$7.5 million	18
\$10 million	20
\$12 million	25
\$15 million	36

1. Create a line graph on the grid below to show the relationship between money and problems.
 - Create an appropriate scale on each axis. [1]
 - Plot the data points on the grid and connect the points. [1]

The Effects of Money on # of Problems



2. Based upon the data, what can you infer is the relationship between money and problems? [1]

Investigate: Was it the weather??

The top 5 teams competing for Lebron were: Chicago Bulls, Miami Heat, Cleveland Cavaliers, New York Knicks, and New Jersey Nets. The average temperature for each city is listed in the chart below:

Average Temperature by City

Team	City	Average Yearly Temperature
Bulls	Chicago, Illinois	49°
Cavaliers	Cleveland, Ohio	50°
Heat	Miami, Florida	76°
Nets	Newark, New Jersey	55°
Knicks	New York, New York	55°

Create a bar graph of this data by doing the following

- Label the graph with an appropriate title. [1]
- Mark an appropriate scale on the axis labeled "Average Yearly Temperature." [1]
- Construct **vertical bars** to represent the data. Shade in each bar. [1]

Title: _____

Average Yearly Temperature (in degrees)



City/Team

- State the difference in degrees between the temperature in Cleveland and the temperature in Miami. [1] _____
- Does the data guarantee that the weather had anything to do with Lebron's decision? Why or why not? [1] _____

The Decision

On July 8, 2010, LeBron James announced "The Decision." The next season he headed South, where he teamed up with Dwyane Wade and Chris Bosh on the Miami Heat. He wanted to win a national championship and he thought he could do it with the Miami team. People have many other theories and opinions about why he chose Miami, but the decision had been made.



What would you do?!

The 2010-2011 season was LeBron's first with the team and the Miami Heat did NOT win a championship. The Coach wanted to increase the team's field goal percentage (shots taken besides free-throws). Help him **decide a factor that could be given to or tried on the players** to increase the number of baskets they make (Do not talk about plays or repositioning). Design an experiment to test your theory. In your response, be sure to:

- State your hypothesis [1]
- State your independent variable [1]
- State how the players in the experimental group will be treated differently than players in the control group [1]
- State the type of data you would collect [1]
- State what results would support your hypothesis [1]
- State one way you could improve the experiment you designed/make it more legit [1]
