

Name \_\_\_\_\_

Date \_\_\_\_\_

## LAB 4A: If the line fits... *Response Sheet*

Directions: Record your responses to the lab questions in the spaces provided.

### How to make predictions

#### Predicting heights

- If you had to predict the height of someone in the LA area, what single height would you choose and why?
  
  
  
  
  
  
  
  
  
  
- Would you describe this as a *good* guess? What might you try and improve your predictions?

#### Predicting heights knowing arm spans

- What height would you predict if you knew a person had an armspan around 62 inches?
  
  
  
  
  
  
  
  
  
  
- What height would you predict if you knew a person had an armspan around 65 inches?
  
  
  
  
  
  
  
  
  
  
- Does knowing someone's armspan help you predict their height. Why or why not?

### Fitting lines

#### Predicting with lines

- Predict how tall a person with a 62 and a person with a 65 inch armspan would be.

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**LAB 4A: If the line fits...**  
***Response Sheet***

- How tall would you predict a person who is 63.5 inch armspan to be?
- Compare your answers with a neighbor's. Did both of you come up with the same equation for a line? If not, can you tell which line fits the data best?

**Regression lines**

**Predicting with regression lines**

- Measure your armspan and use the regression line to predict your height. How close was the prediction?