Lab 4A: If the Lines Fits... Response Sheet

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

Predicting heights

• If you had to predict the height of someone in the Los Angeles area, what single height would you choose and why?

• Would you describe this as a good guess? What might you try to 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?

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Predicting with lines

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

• How tall would you predict a person with a 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?

Predicting with regression lines

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