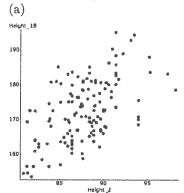
Linear Models

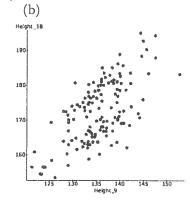
Name:\_\_\_\_\_

1. Consider the two graphs shown below. For each draw a line that you think accurately fits the data.

For which graph do you think the linear model will be a better predictor of new data points? Why?



Height (ft)



2. Tallest Buildings (EXAMPLE)

• Choose a point and describe the information that point provides: (20, 1450)

THIS POINT DESCRIBES A
BUILDING THAT IS 70 STORIES
AND 1450 FEET TALL

• Draw a line that you think accurately fits the data.

Write the slope and explain what it represents (be sure to include units). / CHOSE POWDS ON MY LOOS THAT WERE EVENLY SPROED (AT 20 AND /20) IN ORDER TO MAKE MY

Scope: 1300/100 = 13 ft/story - 46ans Tope

Comment on how accurately your line fits the data.

(FIT PRETTY STRONG)

Write an approximate equation for the line you drew.

-16941 = 200 + 13 × (BTORIES)

3. Air Fare and Fuel Costs (Air Fares from 2000 – 2014 adjusted for 2014 \$\$)

• Choose a point and describe the information that point provides:

- Draw a line that you think accurately fits the data.
- Write the slope and explain what it represents (be sure to include units).
- Comment on how accurately your line fits the data.
- Write an approximate equation for the line you drew.

