

Name _____

Date _____ Pd. _____

Notes: Lines of Best Fit Day 1

Predict	Use _____ to forecast future events.
Scatter plot	A _____ with one point for each item being measured. The _____ of a point represent the measures of two _____ of each item.
Trend	A _____ in a set of data; for example, if a line graph moves generally upward from _____, the trend is _____.
Line of Fit	If the data points of a _____ do not all lie on a line, but are close to a line, then a line of fit can be _____ to show the _____ of the data.

Group activity

What is the equation for the scatter plot line of fit of student heights versus the distance from each student's elbow to tip of his/her finger?

What is the equation for the scatter plot line of fit of student heights versus the distance from each student's knee to the floor?

Name _____

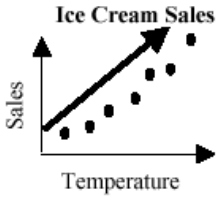
Date _____ Pd. _____

Exit Card: Lines of Best Fit Day 1

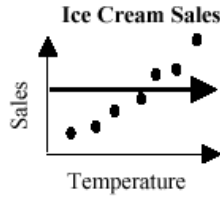
The graph below shows the relationship between the temperature, and the number of ice-cream cones sold.



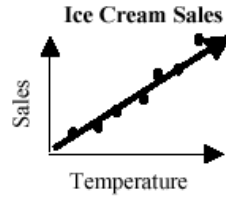
Which of the lines graphed below best fits the data?



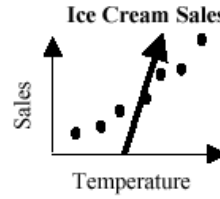
F.



G.



H.



J.

BCR

The chart below shows the average price of white bread (per pound) over a recent ten-year period.

Year	Average Price of White Bread per pound (US City Average)
1990	\$0.66
1991	\$0.71
1992	\$0.73
1993	\$0.75
1994	\$0.77
1995	\$0.80
1996	\$0.83
1997	\$0.89
1998	\$0.91
1999	\$0.94

- Write an equation for the line of best fit for this data. Let x represent the years since 1990 and y represent the price of a pound of bread. (If you choose to draw a graph, use the grid.)
- According to your equation, what was the price of a pound of bread in 2000? Use mathematics to explain how you determined your answer.

Name _____

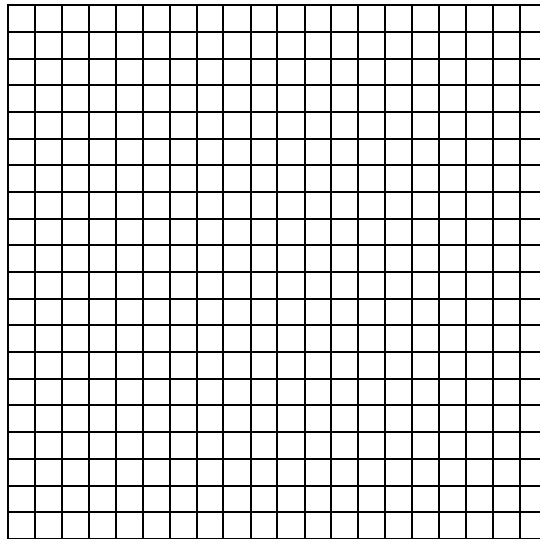
Date _____ Pd. _____

Homework: Page 302 (6 – 9)

Use the table below to answer questions 6 – 9. The table shows the average body temperature in degrees Celsius of 9 insects at a given air temperature.

		Temperature (°C)							
Air	25.7	30.4	28.7	31.2	31.5	26.2	30.1	31.5	18.2
Body	27.0	31.5	28.9	31.0	31.5	25.6	28.4	31.7	18.7

6. Draw a scatter plot and determine what relationship exists, if any, in the data.



- 7. Draw a line of fit for the scatter plot.
- 8. Write the slope-intercept form of an equation for the line of fit.
- 9. Predict the body temperature of an insect if the air temperature is 40.2° C.