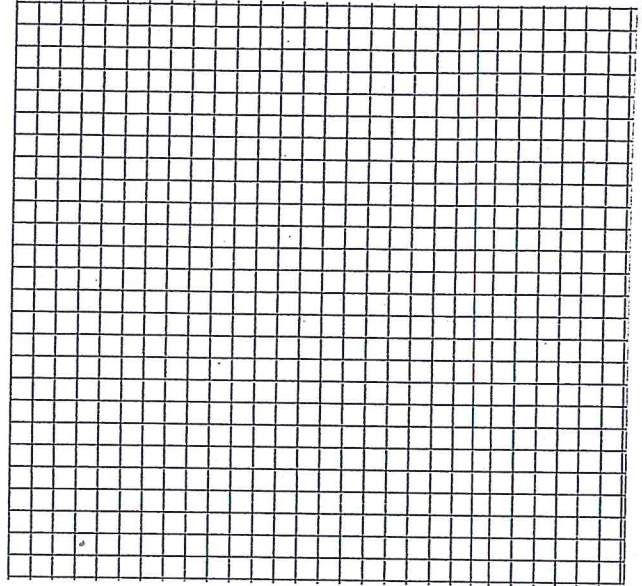


Math 1 - Practice for #4.5b

The table shows the number of people in a room x and the temperature ($^{\circ}\text{F}$) in the room y .

People (x)	0	1	2	3	4	5	6	7	8
Temperature (y)	76	76	77	77	78	79	79	80	82

a) Plot the data by hand.



b) Use a graphing utility to find the line of best fit.

c) Find and interpret the correlation coefficient.

d) Interpret the slope in context.

e) Interpret the y -intercept in context.

f) Predict the temperature when 15 people are in the room.

g) Approximate the number of people in the room when the temperature is 100°F .