

Name _____ Date _____ Period _____ Score _____

Place your answers in the answer column. Show work clearly and neatly.

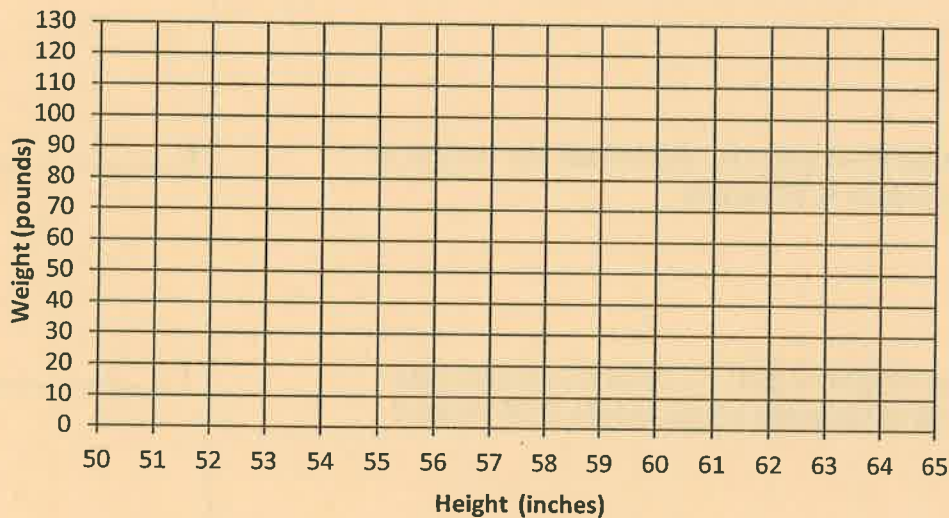
Answers

1.

a) Create the scatter plot using the data table below:

Height	Weight
50	60
52	64
54	72
55	85
57	81
58	90
59	110
62	104
63	108

Comparison of Average Weight and Height



b) Indicate if there is a positive, negative, or no correlation.

c) Based on the data for heights at 52 inches and 62 inches to write the function, $W(h)$, for the "line of best fit."

d) Graph the linear function from part (c) on the graph.

1.

a) (See graph)

b) _____

c) _____

d) (See graph)

2. Using the function from part (c), predict the weight of a person with a height of 60 inches.

2. _____

3. Using the function from part (c), predict the height of a person with a weight of 80 pounds.

3. _____

4. Using the function from part (c), determine the weight of someone whose height is 57 inches.

4. _____

5. How far was the weight in part (4) from the actual data given in the table of someone whose height is 57 inches?

5. _____

6. Using the function from part (b), determine the weight of someone whose height is 59 inches.

6. _____

7. How far was the weight in part (6) from the actual data given in the table of someone whose height is 59 inches?

7. _____

8. Does it make sense to use this function to predict the weight of someone who is 3 feet tall? Explain why or why not.

8. (See question)
