

Data: Scatter Plots & Trends

Name: _____

Date: _____ Score: _____

UNIT TOPICS

- * Plotting ordered pairs on a coordinate plane
- * Identifying positive, negative, and no correlation
- * Drawing a line of best fit

PRACTICE PROBLEMS - Show all work

1. Describe positive correlation in one sentence.
2. Describe negative correlation in one sentence.
3. As height increases, weight tends to increase. This is ____ correlation.
4. As temperature increases, hot chocolate sales decrease. This is ____ correlation.
5. True or False: A line of best fit must pass through every point. ____
6. Plot these points: (1,2), (2,4), (3,5), (4,7). Describe the correlation: ____
7. If a scatter plot has points scattered randomly, the correlation is ____.
8. What does it mean when a point is far from the line of best fit? ____
9. Using a line of best fit: $y = 2x + 1$, predict y when $x = 10$: ____
10. Name one real-world example of negative correlation.

Answers (accept equivalent responses and correct reasoning):

1. [Grade based on correct application of concept taught this week]
2. [Grade based on correct application of concept taught this week]
3. [Grade based on correct application of concept taught this week]
4. [Grade based on correct application of concept taught this week]
5. [Grade based on correct application of concept taught this week]
6. [Grade based on correct application of concept taught this week]
7. [Grade based on correct application of concept taught this week]
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9. [Grade based on correct application of concept taught this week]
10. [Grade based on correct application of concept taught this week]