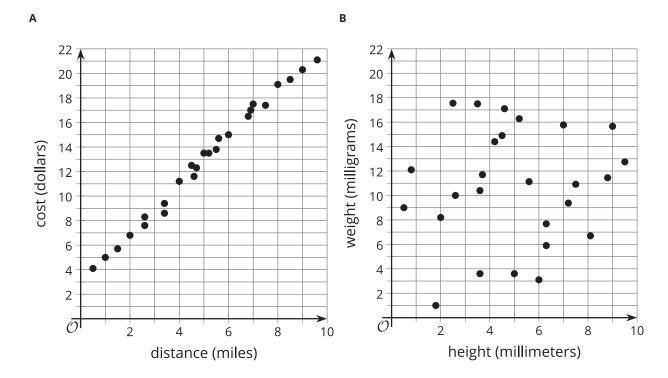
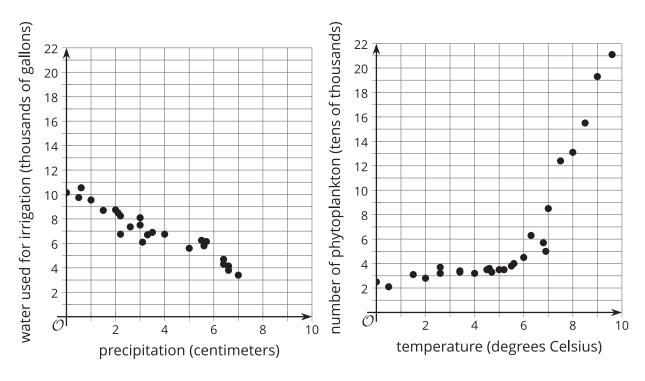
Unit 3 Lesson 7: The Correlation Coefficient

1 Which One Doesn't Belong: Linear Models (Warm up)

Student Task Statement

Which one doesn't belong?





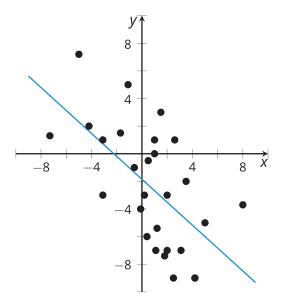
2 Card Sort: Scatter Plot Fit

Student Task Statement

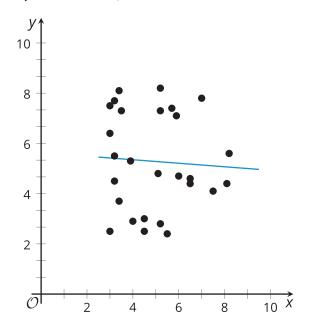
Your teacher will give you a set of cards that show scatter plots of data. Sort the cards into 2 categories of your choosing. Be prepared to explain the meaning of your categories. Then, sort the cards into 2 categories in a different way. Be prepared to explain the meaning of your new categories.

Activity Synthesis

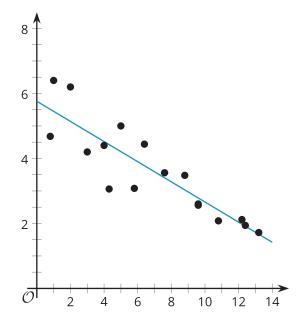
A:
$$y = -0.83x - 1.85, r = -0.61$$



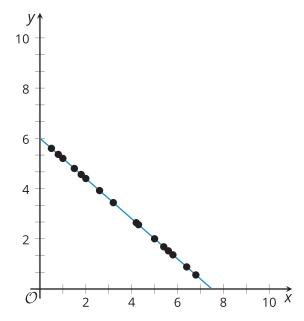
B:
$$y = -0.07x + 5.63, r = -0.06$$



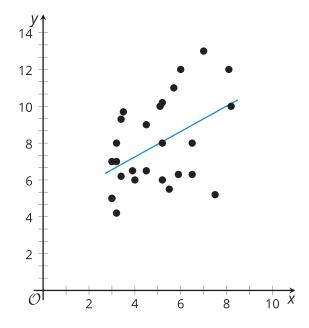
C: y = -0.31x + 5.76, r = -0.88

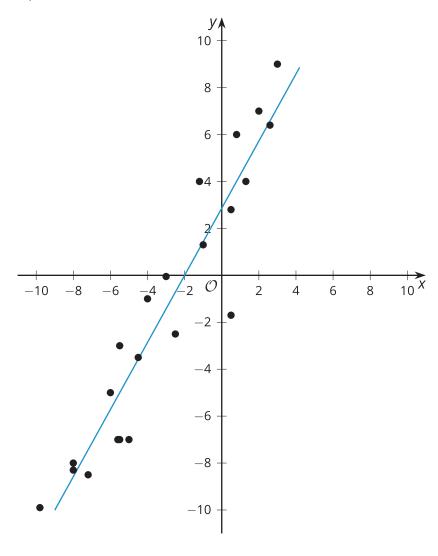


D: y = -0.8x + 6, r = -1

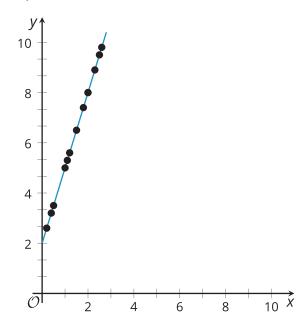


E: y = 0.69x + 4.49, r = 0.46

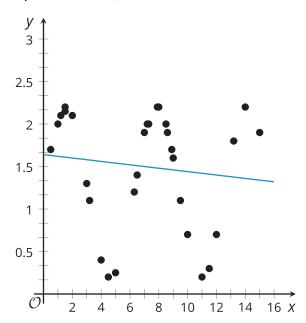




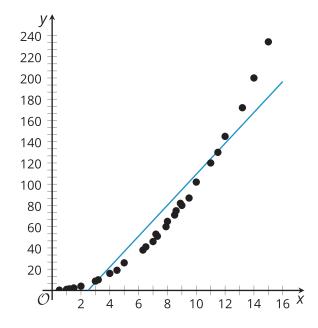
G: y = 3x + 2, r = 1



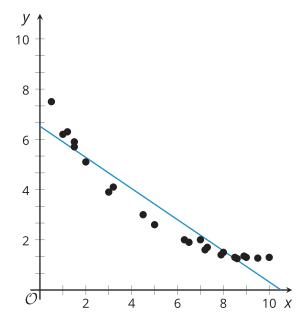
H: y = -0.02x + 1.64, r = -0.13



I: y = 14.55x - 36.18, r = 0.95



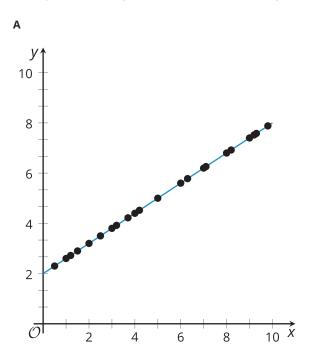
J: y = -0.62x + 6.52, r = -0.96



3 Matching Correlation Coefficients

Student Task Statement

- 1. Take turns with your partner to match a scatter plot with a **correlation coefficient**.
- 2. For each match you find, explain to your partner how you know it's a match.
- 3. For each match your partner finds, listen carefully to their explanation. If you disagree, discuss your thinking and work to reach an agreement.



1.
$$r = -1$$

$$2. r = -0.95$$

3.
$$r = -0.74$$

4.
$$r = -0.06$$

5.
$$r = 0.48$$

6.
$$r = 0.65$$

7.
$$r = 0.9$$

8.
$$r = 1$$

