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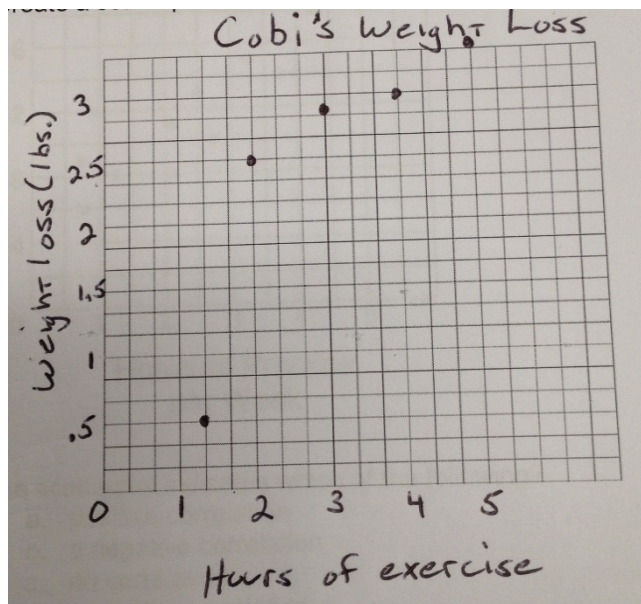
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## Dyeing to Design Pre/Post-Quiz Answer Key

1. The table below shows Cobi's hours of exercise and weight loss each week.

Hours of exercise	Weight loss (pounds)
1.3	0.5
3	2.8
5	3.5
2	2.5
4	3

a. Create a scatterplot from the data in the table.



b. What type of correlation did you find between hours of exercise and weight loss?  
**Positive, more exercise then there's more weight loss.**

2. Which of the following is an example of a solution?

- a. Cement
- b. **Kool-Aid**
- c. Smog
- d. Coffee

3. Calculate the concentration of a solution with 5ml of solute combined with 35ml of solvent.

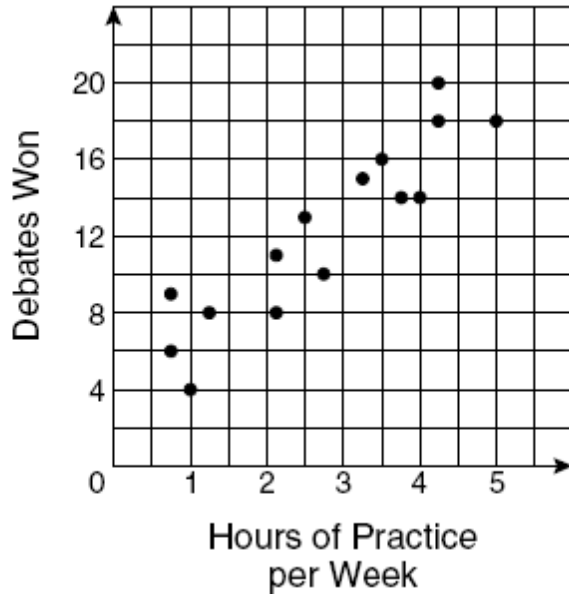
$$\text{solute} / \text{solvent} = \text{concentration} \rightarrow 5\text{ml} / 35\text{ml} = 0.143 \times 100 = 14.3\% \text{ concentration}$$

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4. The coaches of a group of debate teams answered a survey about hours of debate, team practice and number of team wins. The graph shows the results of this survey.



- a. The scatterplot indicates which of the following?
- positive correlation
  - a negative correlation
  - no correlation
  - a parallel correlation
- b. Based on these results, if a team practices four hours per week next season, which is the best estimate of the number of debates the team can expect to win?
- 20
  - 16
  - 12
  - 1