

## Variables & Patterns Partner Quiz

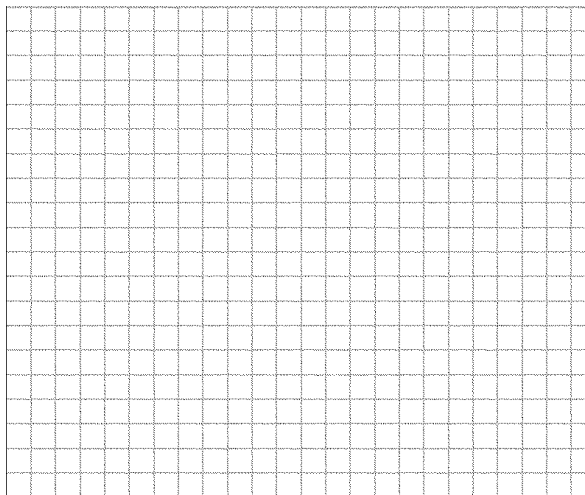
### Short Answer

1. Dominic and Norm decide to save their money to go on a bike tour in their state. Dominic thinks he can save \$10 per week. Norm has \$25 from his birthday to start with and plans to add \$7 each week.
  - a. Make a table that will show the amount of money each boy will have over the next ten weeks if they stick to their plans.
  - b. Write a rule to show how much money each boy has for any number of weeks.

Dominic:

Norm:

- c. Use the entries in your tables to graph each boy's savings over time. Label the axes and name your graph. Use a different color to graph the data for each boy.

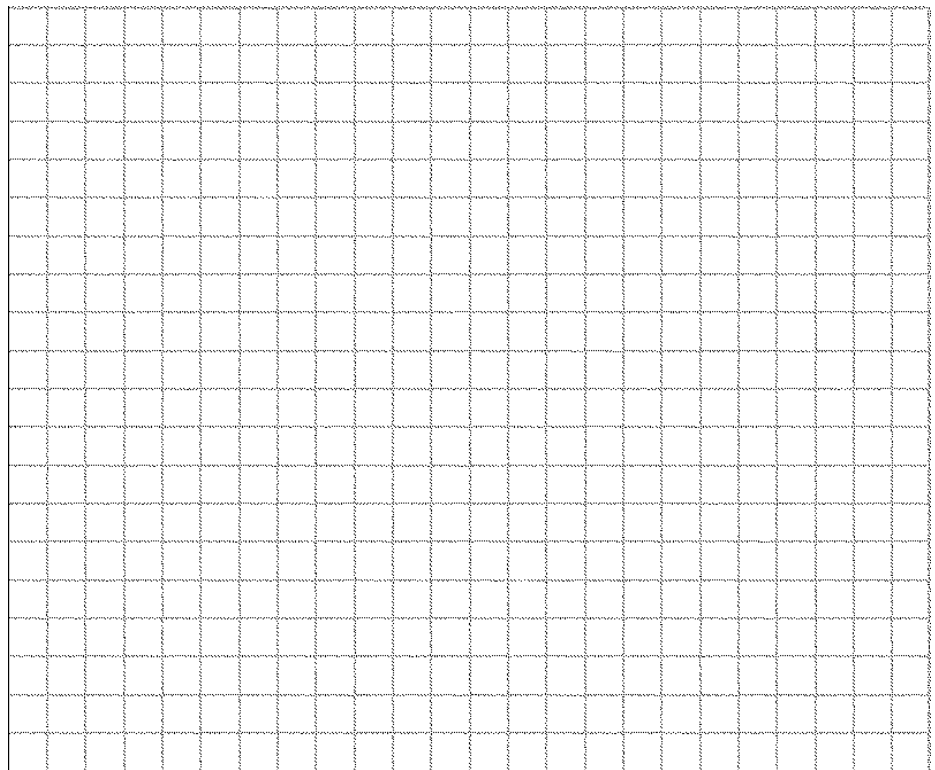


- d. Will the boys ever have the same amount of money at the same time? Explain your reasoning.
- e. If the bike tour costs \$190, when will each boy have enough money to go on the tour?

2. Read the following story carefully. Then, make a table and a graph for the story. Be sure to label your axes and the table rows and name your graph and table.

Angie and her friend Jane are going to see a movie at the Civic Theater. The theater is eight blocks from Angie's house, and Jane's house is halfway between the theater and Angie's house. Angie tells Jane that she will walk over to her house and then they will walk the rest of the way together.

- Angie leaves at 4:25 P.M. for a 5:00 P.M. show.
- It takes her 10 minutes to walk to Jane's house.
- She waits five minutes for Jane, and then they walk for two blocks.
- Jane's dog Gizmo appears, so they go back to Jane's house and put Gizmo inside.
- They are afraid of being late, so they run to get to the theater on time.
- They arrive at 4:56 P.M., get their popcorn, and watch the show.



## Variables & Patterns Partner Quiz Answer Section

### SHORT ANSWER

1. DIF: L2                      REF: Variables and Patterns | Partner Quiz  
OBJ: Investigation 3: Rules and Equations                      STA: 7CO 2.5| 7CO 5.4  
TOP: Problem 3.2 Equations with Two Operations  
KEY: rule | equation | formula | table | coordinate graph
2. DIF: L2                      REF: Variables and Patterns | Partner Quiz  
OBJ: Investigation 3: Rules and Equations                      STA: 7CO 2.5| 7CO 5.4  
TOP: Problem 3.1 Equations with One Operation  
KEY: rule | equation | formula | table | coordinate graph