

Starting With Story Problems

1. Story Problems to Equations

- a. Andre plans to buy 3 new pairs of shoes each month, even though he already has 25 pairs. Write an equation to show the number of shoes he has after any number of months. State what each variable represents.
- b. Robbie has 36 cookies. He is going to eat 2 cookies per hour until they are all gone. Write an equation to show the number of cookies he has after any number of hours. State what each variable represents.
- c. **Time to generalize.** Explain the steps to writing a linear equation to match a story problem.

2. Story Problems to Tables

- a. Tori earns \$5 per week for doing chores around the house, which she combines with the \$73 she already has. Make a table to show the money she has saved after each of the next five weeks.
- b. The temperature is currently 7°C. Each hour, the temperature is decreasing 3°C. Make a table to show the temperature after each of the first five hours.

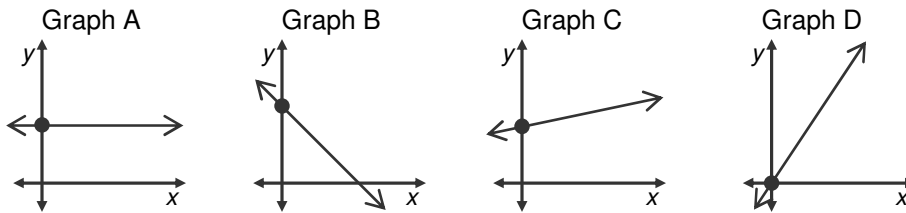
0	
1	
2	
3	
4	
5	

0	
1	
2	
3	
4	
5	

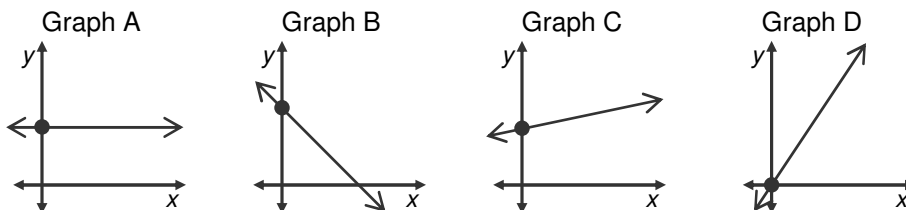
- c. **Time to generalize.** Explain the steps to making a table to match a story problem.

3. Story Problems to Graphs

- a. Beck is driving his car at 55 miles per hour. Which graph (circle one) shows the distance he has driven after any number of hours? Explain how you know.



- b. Each week, Jade writes a check for \$47, which is then taken out of the \$350 in her bank account. Which graph (circle one) shows the amount in her account after any number of weeks? Explain how you know.



- c. Cat loses 3 pencils every day. Luckily she started the school year with 64 pencils in her locker! Draw a graph (back of POD paper) to show how many pencils she has left after any number of days.
- d. Sinjin only has \$11, so he plans to earn money by mowing lawns. He is going to charge \$14 per lawn. Draw a graph (back of POD paper) to show how much money he will have after any number of lawns mowed.
- e. **Time to generalize.** Explain the steps to making a graph to match a story problem.

4. Compare and Contrast

- a. Explain how making tables, graphs, and equations from story problems are similar.
- b. Explain how making tables, graphs, and equations from story problems are different.