

a. **SAVING MONEY**

Julia has \$325 in her savings account. She just got a new job and will be saving money every month. If she always deposits the same amount, how much money will be in her account after she has been saving for five years? (Assume she never spends money from this account.)

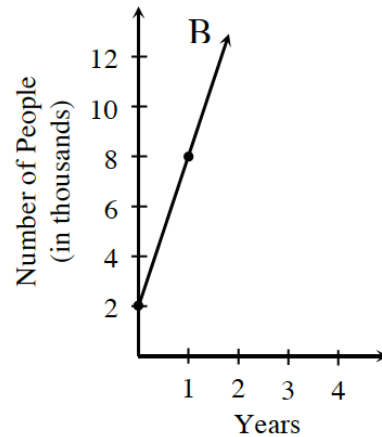
b. **POPULATION GROWTH**

The $x \rightarrow y$ table, graph, rule, and words below each describe a different town. Based on the information you are given about each town's population, decide which town is growing the fastest. Explain how you know.

Population of Town A

Year	Number of People
1975	32,000
1979	50,000
1980	54,500

Population of Town B



Population of Town C

If $x = \text{year}$ and $y = \text{number of people}$, then:
 $y = 46000 - 5200x$

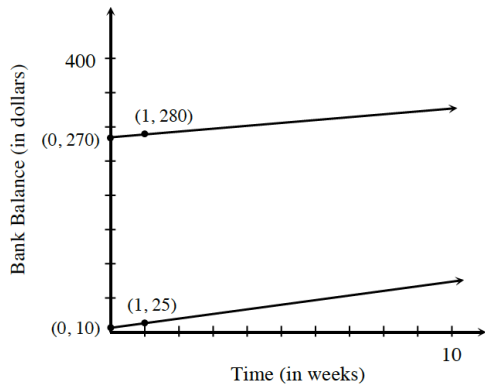
Population of Town D

Town D is growing. Oddly, the same number of people moves to the town each year. Two years ago, the town had 9100 people. Now the town has 15,500 people.

c. **FUNDRAISING**

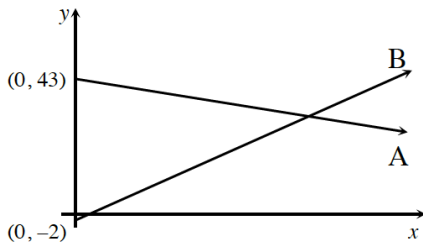
The graph below describes the money two clubs are earning from fundraising. In how many weeks will the two clubs have the same amount of money?

Explain your thinking completely.



d. STORY TIME

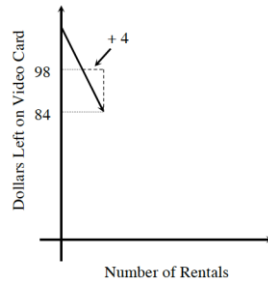
The graph and $x \rightarrow y$ tables below describe a situation. Write a story that fits the given information. Show the connections between the information you are given and the information in your story. Your story must give meaning to the point of intersection



Line A	
x	y
\vdots	\vdots
8	11
9	7
10	3
\vdots	\vdots
\vdots	\vdots

Line B	
x	y
\vdots	\vdots
\vdots	\vdots
4	22
5	28
\vdots	\vdots
\vdots	\vdots

e.



VIDEO RENTAL

Gina has a prepaid video rental card. She currently has a credit of \$84 on the card. The graph at right describes the amount of money there was on the card recently. Use this information to determine:

- How much one video rental costs.
- How many more videos can Gina rent before the card is used up.