Lesson	2.3	~	Ex	olore!	
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Saving and Spending

Name	Period	Date	

William and his sister, Jennifer, each worked summer jobs. William mowed lawns in his neighborhood. Jennifer baby-sat for two different families. By the end of the summer, William had put \$410 in a savings account. Jennifer put \$275 in her account. After school started, Jennifer continued baby-sitting and earned \$20 per week. She put all of her earnings in her savings account. William stopped working and withdrew \$15 per week from his savings account for spending money.

Step 1: Write a recursive routine (start value and operation) for the amount in William's savings account each week after school begins.

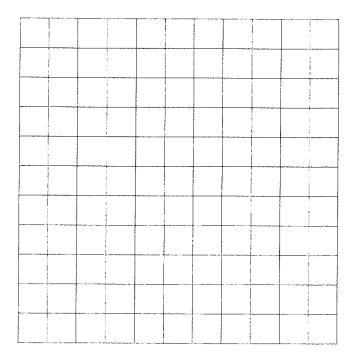
Step 2: Write a recursive routine for the amount in Jennifer's savings account each week after school begins.

Step 3: Fill in the input-output tables shown below for the first 10 weeks after school starts.

Weeks After School Starts	William's Total Savings
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Weeks After School Starts	Jennifer's Total
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Step 4: On the SAME first-quadrant coordinate plane, graph William and Jennifer's total savings for the first ten weeks. Use ● to designate Jennifer's amounts and ▲ to represent William's amounts. Put weeks on the *x*-axis and total savings in dollars on the *y*-axis.



Step 5: After what week does Jennifer have more money than her brother? Which illustration (table, graph or recursive routine) best shows this?