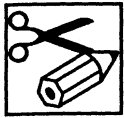


Garden Patterns

Leader



Extend the patterns strategy.



You will need:



Do this:

- Using the table provided, the child is able to organize the information given in the problem to apply the patterns strategy.
- How many plants?

Harry Heartburn had the largest garden in the neighborhood. Instead of growing beets, carrots, corn, and beans (vegetables that almost everyone enjoys), he had a garden of exotic foods.

Ten days after he planted, the first shoots began to appear. The kohlrabi came up first at the rate of one plant a day. The collards started a day after the first kohlrabi at a rate of two a day. The first rutabagas came up two days after the first collards at a rate of three plants a day.

Thirty days after the first kohlrabi came up, how many total plants could be seen growing in Harry's garden?

Days	1	2	3	4	5	6
Kohlrabi						
Collards						
Rutabagas						

Rule for Pattern

Days	30
1 x Day	30
2 x Day - 2	58
3 x Day - 6	84

Total plants = 172



Teaching Problem - Solving Strategies. Addison - Wesley Publishing Company, Inc.

Student _____



Do this:

- Solve the following garden problem, “How many plants?”

Harry Heartburn had the largest garden in the neighborhood. Instead of growing beets, carrots, corn, and beans (vegetables that almost everyone enjoys), he had a garden of exotic foods.

Ten days after he planted, the first shoots began to appear. The kohlrabi came up first at the rate of one plant a day. The collards started a day after the first kohlrabi at a rate of two a day. The first rutabagas came up two days after the first collards at a rate of three plants a day.

Thirty days after the first kohlrabi came up, how many total plants could be seen growing in Harry’s garden?

- Complete the table and look for a pattern to find the total after 30 days.

Days	1	2	3	4	5	6
Kohlrabi	1	2	3			
Collards	0	2	4			
Rutabagas	0	0	3			
Total plants	1	4	10			



WHAT I FOUND