

Name: _____

Date: _____

Falling Leaves

Jason has noticed that every day, more leaves are falling down into his yard. Over the past few days, he has observed the following pattern:

Monday (Day 1)



Tuesday (Day 2)



Wednesday (Day 3)



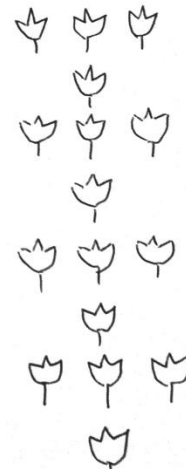
To learn more about the pattern, Jason asked a few questions to his friends, Marcus and Lucy. Here is Marcus's response to Jason's questions:

1. Describe the pattern in your own words.

The amount is increasing by 4 every day.
On day 2, you add 4 to get 8 and
on day 3 you add 4 more to get 12.

2. How many leaves can Jason expect to fall into his yard on Thursday (day 4)? You may express your answer as a number or as a picture.

If you add 4
more leaves on day 4,
there will be 16 leaves.



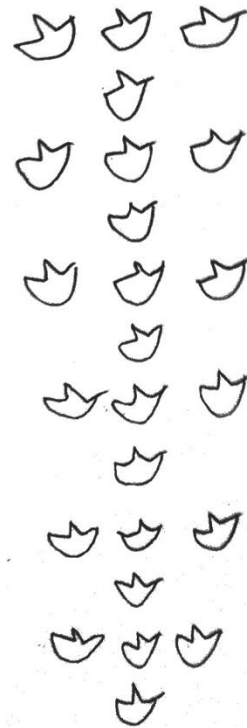
Here is Lucy's response to Jason's questions:

1. Describe the pattern in your own words.

The amount is doubling everyday. On day two, you double 4 to get 8, so on day three it has to double again. The leaves are also falling in a T shape pattern.

2. How many leaves can Jason expect to fall into his yard on Thursday (day 4)? You may express your answer as a number or as a picture.

If the pattern keeps doubling, Jason should expect 24 (double 12) on day 4.



Do you agree with Marcus, Lucy, or neither of them? Write an argument to defend your answer. Be sure to indicate what mistakes you believe each student made.

Response Sheet

I agree with _____ because _____

I know this is true because _____

I think _____ made a mistake when _____
