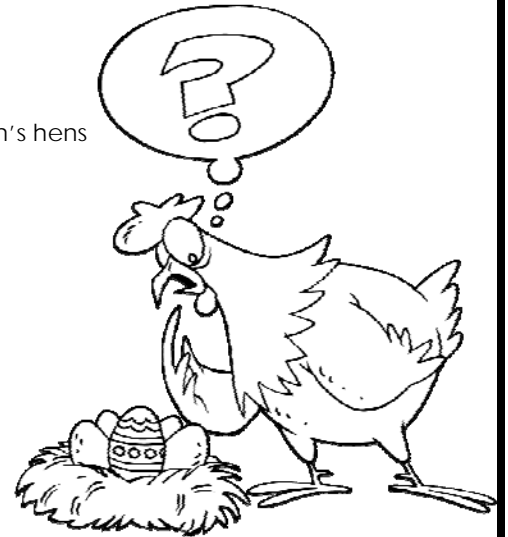


# Step-by-Step Lesson

## On the Farm Data Tables and Tally Charts

The table below displays the number of eggs produced by Farmer John's hens over the last four weeks.

Hen	Week 1	Week 2	Week 3	Week 4
Jezebel	4	2	1	1
Marci	5	2	3	1
Kelly	4	5	2	4
Paula	3	2	2	1
Julia	6	2	1	1
Sophia	3	0	4	2



**Directions:** Create a tally chart (below) from the data table and then answer the questions.

Hen	Number of Eggs Over the Last Four Weeks
Jezebel	
Marci	
Kelly	
Paula	
Julia	
Sophia	

Questions:

1. Which hen produced the most eggs over the last four week? \_\_\_\_\_
2. How many eggs did Farmer John's hens make in week 1? \_\_\_\_\_

**Explanation:** To make a tally chart we make create a mark (|) for each value we have for example if we look at Jezebel her data reads:

4, 2, 1, 1

In tally chart form, that would be: 4 (||||), 2 (||), 1 (|), 1(|)

or +++++| (Note that the crossout = 5 marks)

Applying this to all of hens:

Jezebel = +++++ |||  
Marci = +++++ +++++ |  
Kelly = +++++ +++++ +++++  
Paula = +++++ |||  
Julia = +++++ +++++  
Sophia = +++++ ||||

We can now complete the tally chart.



Hen	Number of Eggs Over the Last Four Weeks
Jezebel	++++
Marci	++++ +++++
Kelly	++++ +++++ +++++
Paula	++++
Julia	++++ +++++
Sophia	++++

We can now answer the questions.

**Question 1.** Which hen produced the most eggs over the last four week?

The tally chart clearly indicates that Kelly (15) produced the most eggs.

**Question 2.** How many eggs did Farmer John's hens make in week 1?

The tally chart doesn't help us with this because it looks at all eggs made. The question is only concerned about the first week. The original data chart can help us with this. If we add all of the eggs made in week 1, we'll have our answer.

Hen	Week 1	Week 2	Week 3	Week 4
Jezebel	4	2	1	1
Marci	5	2	3	1
Kelly	4	5	2	4
Paula	3	2	2	1
Julia	6	2	1	1
Sophia	3	0	4	2

$$4 + 5 + 4 + 3 + 6 + 3 = 25.$$

25 eggs is our answer.

