

# STATISTICS IN THE REAL WORLD

Part of mathematics involves organizing information so it can be useful for making decisions. In this exercise, you will do just that.

## Activity:

You belong to your school's cricket team. Your coach wants to collect data on the team's performance. He discovers, your team did not perform well in the last season.

Below is how the data collected was organized. Observe the table carefully.

### (TITLE) LAST SEASON'S TEAM PERFORMANCE

Games	Tally	Frequency
Win		5
Lose		10
Draw		3
Total		13

This table has three columns and four rows. Observe the purpose of each column. Your coach does not want this to happen in the next season. He has asked everyone in the team to come up with suggestions on how the team can improve. Of course, you first have to address the problem by identifying the reasons or causes for the team's poor performance.

## **DISCUSSION:**

1. Identify the problems the team has. Most likely you will have to address the problems the players face at home and at school.
2. Suggest possible causes of the problems.

This information will help the coach collect more data on the team so it can be useful to help address the problems the players are facing. This is the importance of statistics.

Once data is collected, it is organized. Most times a tally chart is used.

## **ACTIVITY 2:**

Use the information here to help you construct your own tally chart showing the following information.

1. Players in need of new shoes – 6
2. Players in need of pads – 5
3. Players in need of helmets – 1
4. Players in need of gloves – 7

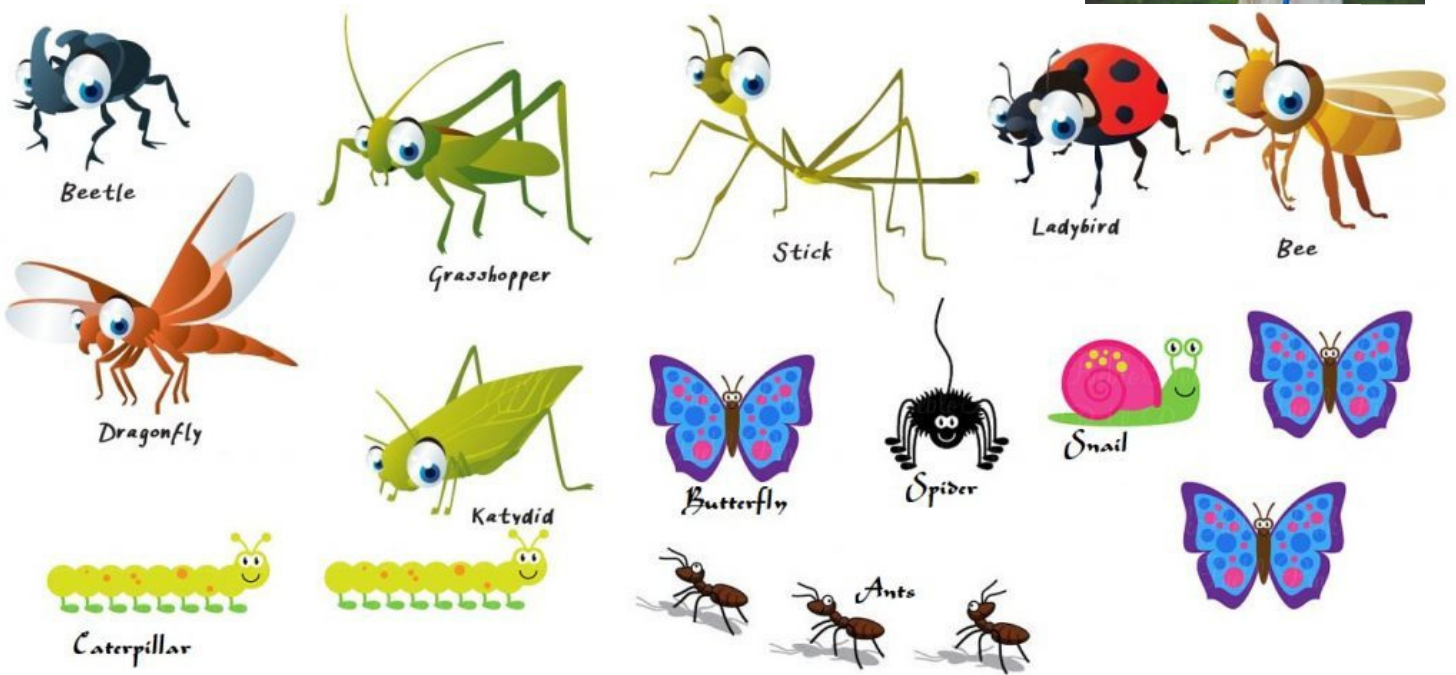
Now show your chart to someone.

Suggested answer

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Exercises

1. Jenny went in the backyard to collect as much insects as she can. She then drew pictures of all the bugs she collected. Below is the picture she drew. Observe the insects she collected and think of ways you can present information about them.



a) Complete the tally chart. Complete the tally chart below.

Insects	Tally	Amount
Winged insects		
non-winged insects		
Total insects collected		

b) According to the diagram above, how many more winged insects than non-winged insects did Jenny catch?

c) Which of the insects had Jenny caught more than one? List their names in alphabetical order.

b) What percentage of butterflies did Jenny catch?

The chart below shows data collected about children in a school and their pets.

Complete the tally chart below and answer the questions.

Pet	Tally	Total
cat		
dog		
rabbit		
parrot		
hamster		
fish		
snake		

- How many students had a rabbit and a dog as a pet?
- Which pet was most popular among the students?
- Which pet was least popular among the students?
- How many more students owned a pet dog than a pet hamster?
- How many students owned a pet in the school?