

# 10-1

## How to Organize Data

### Organize Data in a Table (1)

**Example** The table below shows a report on an injuries incurred by students in a week. Organize the table based on the type of injury and the location where it occurred.

Injury Report

Grade	Type of injury	Location
5	Scrape	Playground
3	Bruise	Stairs
4	Sprain	Gym
2	Cut	Classroom

Grade	Type of injury	Location
3	Scrape	Playground
2	Scrape	Classroom
3	Bruise	Gym
1	Sprain	Gym

	Scrape	Cut	Bruise	Sprain	Total
Playground	// 2	0	0	0	2
Gym	0	0	/ 1	// 2	3
Classroom	/ 1	/ 1	0	0	2
Stairs	0	0	/ 1	0	1
Total	3	1	2	2	8

Tally the report and write the number on the table.



The table below shows the number of injuries for one week. Organize the table based on the type of injury and the location where it occurred.

Injury Report

Grade	Type of injury	Location
5	Scrape	Playground
3	Bruise	Playground
4	Sprain	Classroom
2	Cut	Classroom
4	Cut	Playground
1	Scrape	Playground
4	Sprain	Gym

Grade	Type of injury	Location
5	Scrape	Playground
3	Bruise	Stairs
4	Scrape	Playground
2	Cut	Classroom
1	Sprain	Gym
6	Scrape	Classroom
2	Sprain	Playground

	Scrape	Cut	Bruise	Sprain	Total
Playground					
Gym					
Classroom					
Stairs					
Total					

I wonder what kind of injuries are common and where they occurred?

How can we take actions to reduce injures in playground?



# 10-2

## How to Organize Data

### Organize Data in a Table (2)

#### Example

The table below shows the types of injuries that occurred at school last month, focusing on the places where the injuries occurred and the kind of injuries. Answer the following questions based on the information in the table.

	Cut	Bruise	Scratch	Sprain	Total
Playground	1	4	3	1	9
Corridor	2	3	2	0	7
Classroom	4	1	3	0	8
Gymnasium	1	2	4	2	9
<b>Total</b>	8	10	12	3	33

- 1 Fill in the blanks of the table above.
- 2 How many children had sprains at the gymnasium?

- 3 What kind of injuries most occurred?

The table below shows the kinds of books and the number of books borrowed one day. Answer the following questions.

	G1	G2	G3	G4	G5	G6	Total
Story	7	5		5	8	10	41
History	4	2	5	8	10	10	
Encyclopedia	0		6	8	12		
Picture book	10	10	14	10		15	
<b>Total</b>	21		31	31		44	

- 1 Fill in the blanks.
- 2 What kinds of books borrowed the most?
- 3 Which grades of students borrowed the books least?

# 10 - 3

## How to Organize Data

### Review

1 The following record shows the lunch food and drinks ordered in a café. The owner will consider discounting the most sold combi as a promotion.

Food	Drink	Food	Drink	Food	Drink
Hot dog	Soda	Hot dog	Soda	Sushi roll	Water
Pizza	Soda	Pizza	Soda	Hot dog	Tea
Rice ball	Tea	Pizza	Tea	Rice ball	Tea
Hot dog	Soda	Rice ball	Water	Hot dog	Soda
Pizza	Water	Rice ball	Soda	Rice ball	Water

Summarize in the following table below.

	Hot dog	Pizza	Rice ball	Sushi roll	Total
Soda					
Tea					
Water					
Total					

2 A class survey on brothers and sisters was conducted. There were 35 students in the class. 12 students have older brothers and 18 students have older sisters and 5 students also have older brothers.

		Older brother		Total
		Yes	No	
Older sister	Yes	5		18
	No			
Total		12		35

Look at the first row. The total number is 18 and 5 students have older sister and older brother. So, you can find the number of students who have older sisters but do not have older brothers by calculation.



1 Find the number of students who do not have older brothers but have older sisters.

2 Find the number of students who have only older brother.

3 Complete the table above.