## 6－1 <br> Data Organization

Example 1 The table below summarizes the results of a class survey to find the best three favorite sweets which teacher will give it as a prize．Find the number of people who voted by using tally marks．

| Chocolate | Chocolate | Candy | Chocolate |
| :--- | :--- | :--- | :--- |
| Gum | Candy | Gum | Gum |
| Candy | Chocolate | Candy | Ice cream |
| Gum | Chocolate | Biscuits | Candy |
| Chocolate | Gum | Chocolate | Pudding |


| Chocolate | HHN／／ |
| :--- | :--- |
| Candy | HHF |
| Gum | HHt |
| Biscuits | $/$ |
| Ice cream | $/$ |
| Pudding | $\nearrow$ |



1 The table below summarizes the results of a class survey to find the best three favorite colours to buy color paper for an art class．Find the number of people who were surveyed by using tally marks．

| Orange | Orange | Blue | Blue | Brown |
| :--- | :--- | :--- | :--- | :--- |
| Blue | Orange | Red | Orange | Red |
| Red | Green | Blue | Red |  |
| Blue | Blue | Orange | Red |  |
| Blue | Orange | Purple | Orange |  |
|  |  |  |  |  |


| Red |  |
| :--- | :--- |
| Blue |  |
| Orange |  |
| Green |  |
| Purple |  |
| Brown |  |

Example 2 Convert the tally in Example I into numerals and sort out the numbers in the table below．

| Favorite <br> sweets | Chocolate | Candy | Gum | Other |
| :--- | :---: | :---: | :---: | :---: |
| Number of <br> people | 7 | 5 | 5 | 3 |

Sort out in descending order（from many to few）from the left to see what the best is．

Small numbers of votes comparing to the best three items are summed up as＂Other＂．Put＂Other＂last．

How many votes were there collected in total？


2 Convert the tally in Problem｜into numerals and sort out the numbers in the table below．Small numbers of votes comparing to the best three items are summed up as＂Other＂and put ＂Other＂last．

| Favorite <br> colors |  |  |  |  | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number of <br> people |  |  |  |  |  |

3 The tally shows the result of a class survey on the best three favorite drinks into numerals．Sort out the numbers in the table below．Small numbers of votes comparing to the best three items are summed up as＂Other＂and put＂Other＂last．

| Water | HHt／ |
| :--- | :--- |
| Juice | HHN I／I |
| Tea | I／ |
| Soda | HH／HHt |
| Coffee | I／ |
| Milk | I／ |


| Favorite <br> drinks |  |  |  |  | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number of <br> people |  |  |  |  |  |

## 6－2 <br> Bar Graphs（1）

Example 1 A boy created the graph by surveying his classmates about the best favorite colors．

（2）What is the difference between the number of classmates who like the best favorite colour and the second best favorite colour？

1 A teacher created the graph by surveying her classmates about their favorite subjects to think of organizing extra classes．

Favorite subjects


Example 2 A boy created the bar graph by tallying the number of students used the health room during 6 months． The result helped to call attention to students．
（People）Students used the health room

（1）Which month had the most students used？

April
2．Which month had the least students used？

March
3 Which of the month that the number of users has increased compared in the adjacent months？


Why many students used health room in April？

Maybe new semester begins in the month．

April


2 A girl created the bar graph by tallying the number of books her classmates borrowed from the school library over four months to decide when she will reorganize books in the library． （Number Books borrowed in four months
of books）

（1）In which month were the most books borrowed？

（2）How many books were borrowed during that month？

（3）What is the difference the number of books borrowed in July and August？


[^0]The school may enter summer vacation．．．

6－3

Example 1 A girl created the bar graph by tallying the number of days it had rained in a year to determine when farmers will sow．

（1）How many days does one mark on the scale represent？


2．If it is the best to sow in the month with the least rainfall， which month should it be done？

Example 2 In the bar graph below，how many units does one mark on the scale represent？How many units are shown in the bar？


2


The bar shows


1 A boy created the bar graph by tallying the number of minutes he read at home last week to calculate how many days he needs to finish current reading book．

Reading time at home

（1）How many minutes does one mark on the scale represent？

（2）How many minutes did he read on Thursday？


Exemple 3 Construct the bar graph by using the table below．
Favorite sports in a class

| Favorite sports | Soccer | Running | Other | Total |
| :--- | :---: | :---: | :---: | :---: |
| Number of people | 6 | 4 | 3 | 13 |



## 2 Construct the bar graph by using the table below．

Favorite fruits in a class

| Favorite <br> fruits | Number of <br> people |
| :--- | :---: |
| Banana | 25 |
| Orange | 20 |
| Other | 10 |



## 6－4 <br> Organizing Data Using Tables

Example 1 The tables below show what types of weather there was in June，July，and August to determine harvesting time．

| Weather in June |
| :--- | :--- |
| Type of <br> weather Number of <br> days（Days） <br> Sunny 6 <br> Cloudy 10 <br> Rainy 14 <br> Total 30 |


| Weather in July |  |
| :--- | ---: |
| Type of <br> weather | Number of <br> days（Days） |
| Sunny | $1 ।$ |
| Cloudy | 6 |
| Rainy | 14 |
| Total | $3 \mid$ |

Weather in August

| Type of <br> weather | Number of <br> days（Days） |
| :--- | ---: |
| Sunny | 15 |
| Cloudy | 5 |
| Rainy | 11 |
| Total | 31 |

1 Which month had the most number of sunny days？

## August

2．Fill in the blanks to make the combined table．

| Type $\quad$ Month | June | July | August | Total |
| :--- | ---: | ---: | ---: | ---: |
| Sunny | 6 | 11 | 15 | 32 |
| Cloudy | 10 | 6 | 5 | 21 |
| Rainy | 14 | 14 | 11 | 39 |
| Total | 30 | 31 | 31 | 92 |

The combined table is easy to see and compare data．
From June to August，the number of sunny days is increasing．


1 The tables below show the total sales for a clothing store for March，April，and May．The store owner is thinking of the number of clothes for store．
Sales for March

| Sales for April |  |
| :--- | :--- |
| Type of <br> item Number <br> Pieces <br> of  <br> T－shirt 32 <br> Shirt 41 <br> Hoodie 17 <br> Total 90 |  |


| Sales for May |  |  |
| :--- | :--- | :---: |
| Type of <br> item Number <br> Pieces <br> of  <br> T－shirt 52 <br> Shirt 11 <br> Hoodie 12 <br> Total 75 |  |  |

1 Fill in the blanks to make the combined table．

| Type Month | March | April | May | Total |
| :--- | :--- | :--- | :--- | :--- |
| T－shirt |  |  |  |  |
| Shirt |  |  |  |  |
| Hoodie |  |  |  |  |
| Total |  |  |  |  |

2 In which month were the most T－shirts sold？ $\square$
Example 2 The tables below show what types of weather were more in September and October．Combine the bar graphs．


2 Combine the bar graphs in the following ways．


1
By adding two bars together．


（2）By lining bars side by side．


## Review

1 Find the number of people who were surveyed by using tally marks．The table below summarizes the results of a class survey about the best three favorite fruits．Convert the tally into numerals and sort out the numbers in the table below．

| Apple | Banana | Avocado | Mango | Mango | Mango |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Banana | Orange | Banana | Banana | Orange | Banana |
| Grape | Mango | Banana | Mango | Orange |  |
| Orange | Watermelon | Orange | Orange | Banana |  |
| Banana | Banana | Mango | Mango | Banana |  |
|  |  |  |  |  |  |


| Banana |  |
| :--- | :--- |
| Mango |  |
| Orange |  |
| Other |  |


| Favorite fruits |  |  |  |  | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Number of people |  |  |  |  |  |

2 A girl created the bar graph by tallying the number of students absent from her class over four months to write an article for class newspaper．
（Number of people）

Absent students in four months

（1）How many students were absent in July？


2 How many students were absent altogether？


3 In the bar graph below，how many units does one mark on the scale represent？how many units are shown in the bar？

1



One mark $\square$ people The bar shows $\square$ people

4 Construct the bar graph by using the table below．
Vehicles that passed in front of school from 9：00 a．m．to 9：30 a．m．

| Kind | Number of vehicles <br> （Vehicles） |
| :--- | ---: |
| Bike | 12 |
| Car | 5 |
| Bus | 2 |


$\stackrel{\otimes}{\square}$


5 The tables below show the total sales for a stationary shop for March，April，and May．Fill in the blanks to make the combined table．

| Sales for March |  | Sales for April |  |  | Sales for May |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type of item | Number of Pieces | Type of item | Numb <br> Pieces |  | Type of item | Number of Pieces |
| Pen | 18 | Pen |  | 19 | Pen | 18 |
| Notebook | 16 | Notebook |  | 16 | Notebook | 17 |
| Other | 12 | Other |  | 8 | Other | 10 |
| Total | 46 | Total |  | 43 | Total | 45 |
|  | Type \Month | March | April | May | To |  |
|  | Pen |  |  |  |  |  |
|  | Notebook |  |  |  |  |  |
|  | Other |  |  |  |  |  |
|  | Total |  |  |  |  |  |


[^0]:    I wonder the number of books borrowed was decreased sharply．

