

32. Data Displays

a) Demo · Dot Plot

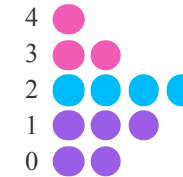
Number of pets owned by 12 students:

0, 0, 1, 1, 1, 2, 2, 2, 2, 3, 3, 4

Each dot represents one student:

- Most students have 2 pets
- Data range: from 0 to 4
- 1 student has more than 3 pets

Pet Count Dot Plot



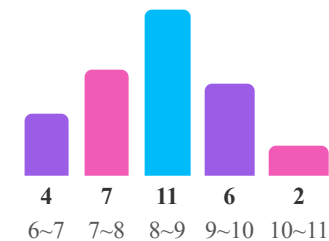
b) Demo · Histogram

Daily sleep time of 30 students grouped:

A histogram groups data; taller bar means more people:

- Which group has the most? 8~9 hours
- 4 students sleep less than 7 hours
- 7 students sleep at least 9 hours

Sleep Time Histogram



32. Data Displays

c) Reading Dot Plots

The dot plot shows **daily exercise time (minutes)** of 30 students:

- ① How many data points?
- ② What is the exercise time range?

From to minutes

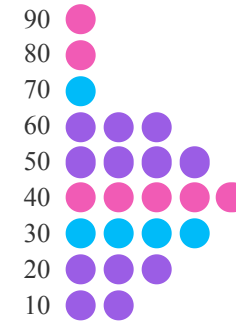
- ③ What is the most common exercise time?

minutes

- ④ How many exercise more than 60 minutes?

students

Exercise Time Dot Plot



d) Reading Histograms

The histogram shows **heights (cm)** of 40 students:

- ① Which height range has the most students?

- ② How many are 140~149cm?

students

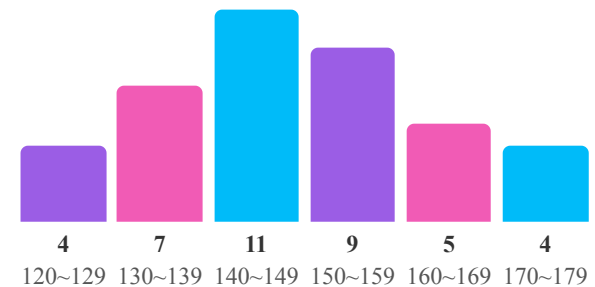
- ③ How many are at least 160cm?

students

- ④ How many are under 150cm?

students

Height Histogram



32. Data Displays

e) Reading Dot Plots

The dot plot shows **weekly allowance (yuan)** of 15 students:

① What is the most common allowance?

yuan

② What is the highest allowance?

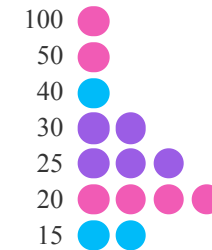
yuan

③ Any unusually high values?

④ How many have less than 30 yuan?

students

Allowance Dot Plot



f) Reading Histograms

The histogram shows **math test scores** of 50 students:

① Which score range has the most?

② How many passed (above 60)?

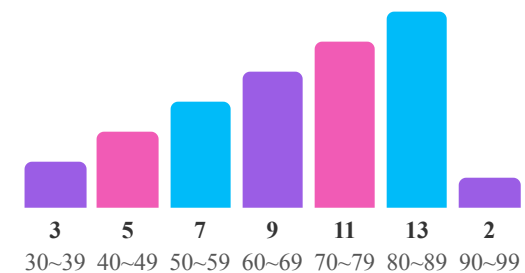
students

③ How many scored above 80?

students

④ Which score range has the fewest?

Test Score Histogram



32. Data Displays

g) Comprehensive Application

The dot plot shows **weekly TV watching time (hours)** of 25 students:

① What is the data range?

From to hours

② What is the most common watching time?

hours

③ What is the longest watching time?

hours

④ How many watch more than 5 hours?

students

⑤ What are the characteristics of this distribution?

TV Watching Time Dot Plot

