

# Pie Charts and Proportions

Pie charts enable a quick and clear overview of how portions of data relate to the whole.

## Example

A questionnaire asking students about their favourite colour elicited the following results:

- Red: 20 students
- Blue: 12 students
- Green: 25 students
- Pink: 10 students
- Yellow: 6 students

1. Make a pie chart based on this data.
2. Find the percentage for each colour.

### Before Starting

There may be differences in the results of calculations and graph plotting depending on the setting. Return all settings to the default value and delete all data.

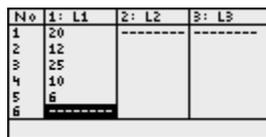
### Step & Key Operation

### Display

### Notes

**1-1** Enter the data.

STAT A ENTER 2 0 ENTER 1  
 2 ENTER 2 5 ENTER 1 0  
 ENTER 6 ENTER



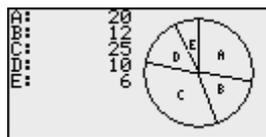
**1-2** Choose the setting for making a pie chart.

STAT PLOT A ENTER ENTER ▼ ▼  
 ▼ STAT PLOT F 1



**1-3** Make a pie chart.

GRAPH



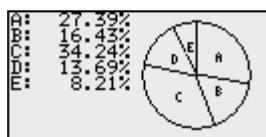
**2-1** Choose the setting for displaying by percentages.

STAT PLOT A ENTER ▼ ▼ ▼  
 STAT PLOT F 2



**2-2** Make another pie chart.

GRAPH



Red: 27.39%  
 Blue: 16.43%  
 Green: 34.24%  
 Pink: 13.69%  
 Yellow: 8.21%

Pie charts can be made easily with the EL-9900.