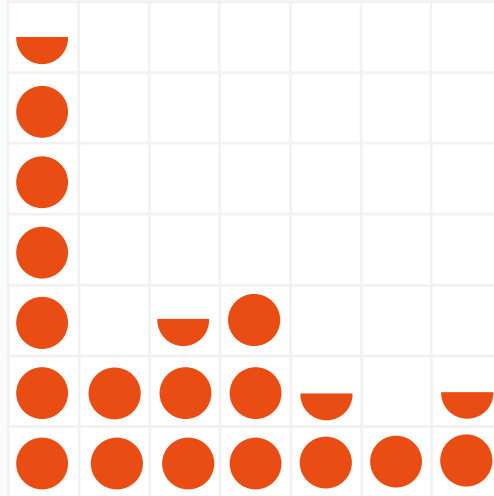


# Types of Graphs or Charts

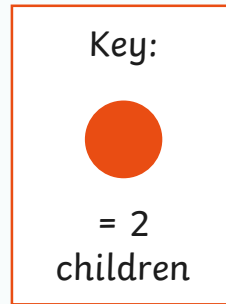


# Pictograms

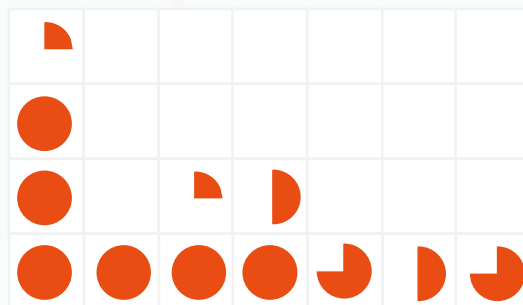
A Pictogram to Show How the Children in KS2 Travel to School



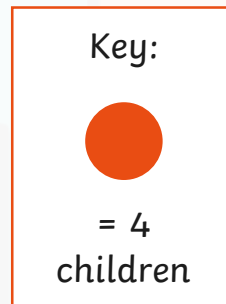
Walk Bicycle Car Bus Tram Train Other  
Types of Transport



A Pictogram to Show How the Children in KS2 Travel to School



Walk Bicycle Car Bus Tram Train Other  
Types of Transport



A pictogram uses pictures or symbols to represent **discrete data**.

A key shows the value represented by one picture or symbol.

It is important to identify the value of the whole picture or symbol in a pictogram, as part symbols are often used to show different values.

In both of these pictograms, the data is the same but the value of the symbol is different.

# Bar Charts

Data that is counted and has no in-between value is called **discrete data**. Discrete data is usually collected in a frequency table and then presented as a bar chart.

A bar chart has a **horizontal** axis and a **vertical** axis.

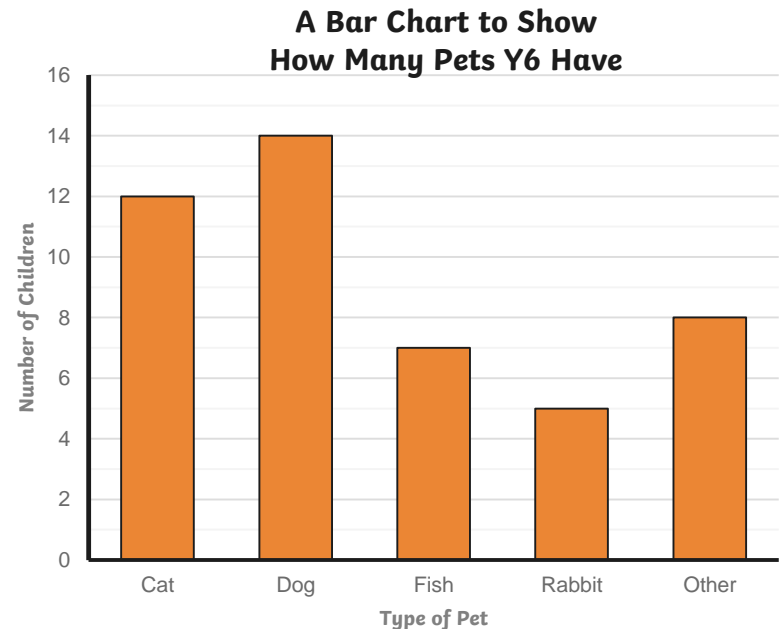
- A bar chart must always have a **title** explaining what it shows.
- Bars must be carefully drawn to show the data.
- There must be a **gap** between each bar.
- Each bar must be the **same width**.

A **number line** is marked on the **vertical** axis. The scale of this number line is chosen based on the data range.

The **data categories** are organised on the **horizontal** axis.

Each axis must have a **label** explaining what it shows.

Pet	Number of Children
Cat	12
Dog	14
Fish	7
Rabbit	5
Other	8



# Bar Charts

Discrete data in each category can also be represented in subcategories:

Pet	Number of Boys	Number of Girls
Cat	7	5
Dog	6	8
Fish	3	4
Rabbit	1	4
Other	2	6

We can draw a grouped bar chart to show this data. In this bar chart, each category has more than one bar. A key is used to identify the subcategories of the data.

