

Understanding graphs

CAPS Statement

Data Handling

Representing data:

Draw a variety of graphs to display and interpret data, including:

- pictographs with many-to-one representations
- bar graphs and double bar graphs

Note

You will learn how to:

- Organise data into tables
- Represent data in pictographs
- Analyse and interpret data using graphs
- Complete a full data cycle.

Activity 1

Lerato was asked to make a pictograph of the food her classmates liked to eat the most. She began by asking them to choose between fish, apples or ice cream.

These were the responses

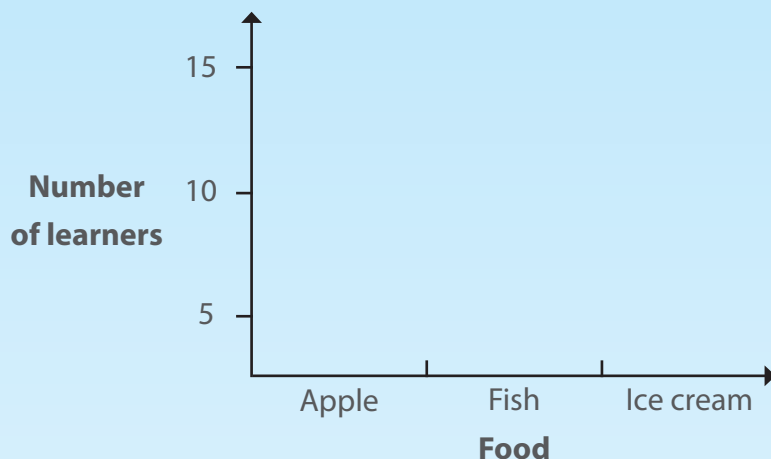
apple	apple	apple	ice cream	apple	ice cream
ice cream	ice cream	fish	fish	apple	
fish	fish	apple	apple	fish	apple
apple	fish	ice cream	apple	fish	
	ice cream	apple	apple		



a Fill in the table to count how many children are in her class.

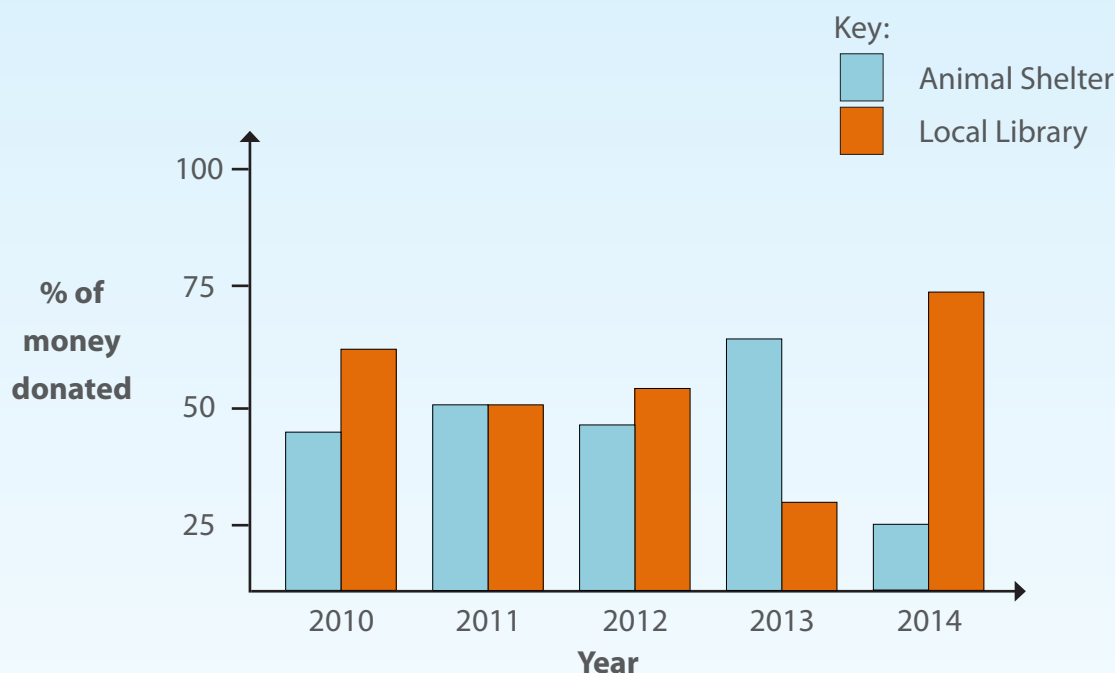
Food	Picture	Total
Apple		
Fish		
Ice cream		

- (b) What food is liked the most in Lerato's class? _____.
- (c) What food is liked the least? _____.
- (d) Draw a pictograph to show the foods liked by Lerato's classmates below:



Activity 2

Lerato gets R100 each year from her parents to donate to an animal shelter and her local library. She made a graph of the percentage of money she gave each year:



- (a) In what year did Lerato donate most of her money to the animal shelter? _____.
- (b) In what year did she donate most of her money to the library? _____.
- (c) In what year did she donate her money equally? How much did they each get that year? _____.

Teacher Tip

In order to present data, you can use a variety of things that children can relate to such as food, people and cars.



Interpreting data

CAPS Statement

Data Handling

Analysing, interpreting and reporting data:
Critically read and interpret data represented in:

- words
- pictographs
- bar graphs
- double bar graphs
- pie charts

Note

You will learn how to:
Analyse and interpret data using pictographs, bar graphs and pie charts.
Report writing.

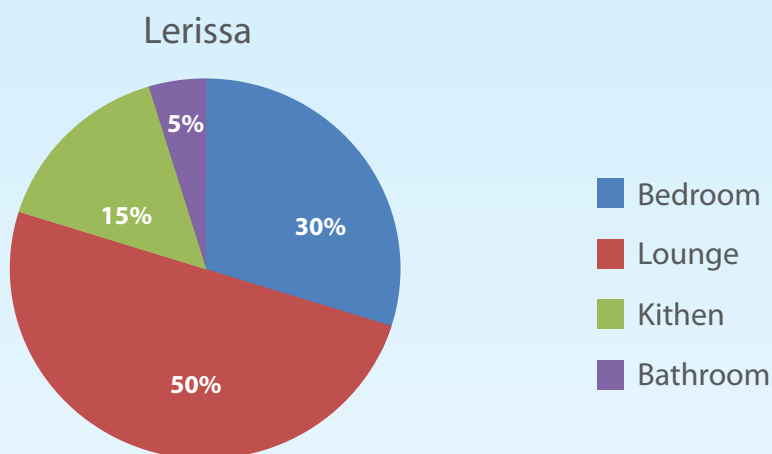
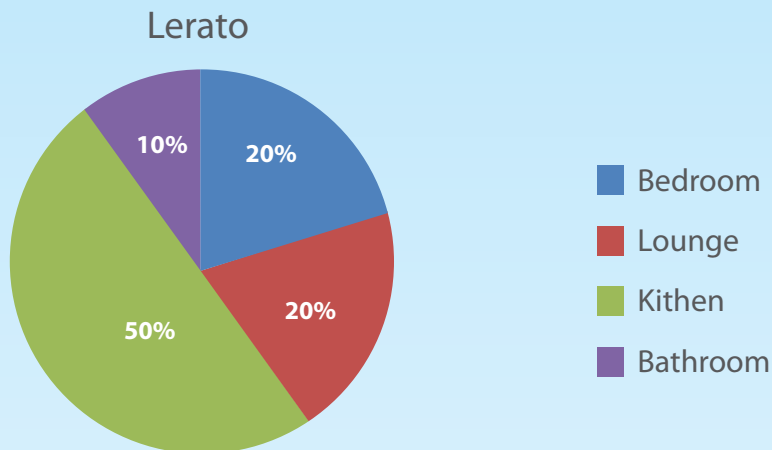
Activity 1



- (a) Who collected the most stars? _____.
- (b) How many more stars did Jane collect than Clare? _____.
- (c) How many more stars should Chris collect to have as many as Matt? _____.
- (d) List the learners who collected the most stars to the least stars, in order.
_____.

Activity 2

Lerato and Lerissa calculated how much time they spend in each room at home in the evening:



- Where do Lerato and Lerissa spend most of their time? _____.
- Who spends more time in the kitchen? _____.
- In which two rooms does Lerato spend an equal percent of her time? _____.
- What percentage of the time does Lerissa spend in her bedroom? _____.
- How much more time does Lerissa spend in her bedroom than Lerato does in hers?
_____.
- If they calculated their percentages in the evening over 5 hours, how much time does Lerato spend in her bedroom? _____.

Teacher Tip

Use children in class to represent data so that they can feel more involved in the lesson and get a better understanding of the concept.

