Activity 1 Assessment
Formulating Questions to Collect Data

Data Collection

Differentiates between open-ended and closed-list questions	Collects data using closed-list questions and categories	Categorizes collected data

Differentiates between open-ended and closed-list questions

What is your favourite fruit?
"This is an open-ended question because respondents can answer in their own words."

Collects data using closed-list questions and categories

"What is your favourite fruit: orange, apple, banana, grapes, or other?"

Orange, apple, apple, grapes, other, banana, orange, …, orange, apple

Categorizes collected data

Fruit	Tally
Orange	|||| |||
Apple	|||| ||||
Banana	||||
Grapes	||||	
Other		

"I marked a tally each time a student chose a particular fruit."

Observations/Documentation

Data Collection (cont'd)

Organizes categorized data in frequency tables	Represents data using bar graphs and dot plots	Flexibly represents data based on frequency (including stem-and-leaf plots)

Organizes categorized data in frequency tables

Fruit	Frequency
Orange	8
Apple	10
Banana	4
Grapes	6
Other	1

"I organized the data in a frequency table so I can see and compare the numbers of students who chose each fruit."

Represents data using bar graphs and dot plots

Favourite Fruit of Grade 5 Students
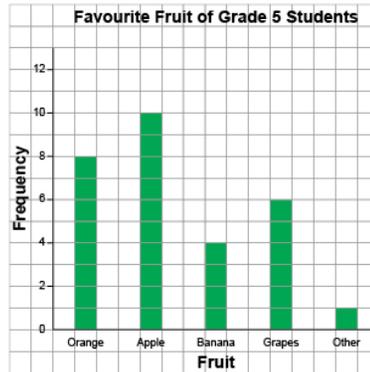
"I showed the data on a bar graph."

Flexibly represents data based on frequency (including stem-and-leaf plots)

Masses of Dogs Seen in One Day

Stem	Leaf
1	2 7
2	5 8 8
3	0 4 9
4	1

Key: 1 | 2 means 12 kg

"I see the same number of dogs had a mass between 20 kg and 29 kg as between 30 and 39 kg."

Observations/Documentation

Mathology 5 Alberta
Copyright © 2024 Pearson Canada Inc.

The right to reproduce or modify this page is restricted to purchasing schools.
This page may have been modified from its original.