

# Activity 3 Assessment

## Comparing Graphs

### Describing and Representing Data

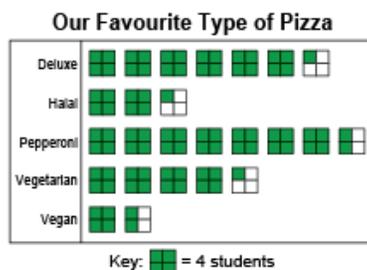
Describes given data using frequency counts.

Students in three Grade 4 classes were asked to choose their favourite pizza.

Pizza Type	Number of Students
Deluxe	25
Halal	9
Pepperoni	30
Vegetarian	17
Vegan	6

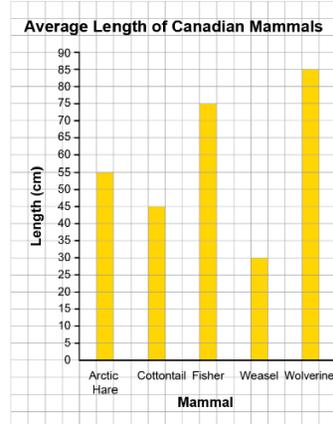
“30 students chose Pepperoni as their favourite pizza. Only 6 students chose Vegan.”

Represents data using a pictograph using many-to-one correspondence.



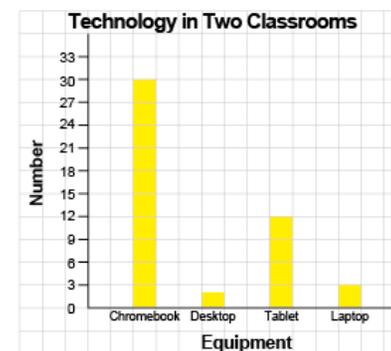
“The key is 1 square represents 4 students. For 17 students:  $17 \div 4 = 4 \text{ R}1$ , so I drew 4 full squares, and one-fourth of another square.”

Represents data using a bar graph using many-to-one correspondence.



“I used the scale 1 square = 5 cm to represent animal lengths. All of the lengths were divisible by 5, so I divided each animal’s length by 5 to find the number of squares in each bar.”

Flexibly creates representations to show data using many-to-one correspondence.



“I used a scale of 1 square = 3 pieces of equipment because most numbers are multiples of 3 and are in the skip-counting by 3s sequence. Other students will find it easy to interpret.”

### Observations/Documentation

# Activity 3 Assessment

## Comparing Graphs

### Interpreting Data and Making Informed Decisions

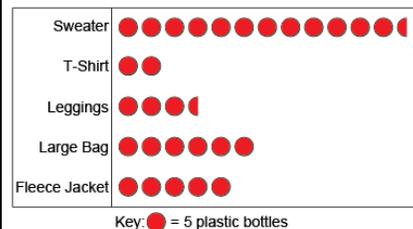
Draws conclusions based on data presented.

Item	Number of Bottles
Sweater	62.5
T-Shirt	10
Leggings	17.5
Large Bag	30
Fleece Jacket	25

"A sweater uses about 6 times as many bottles as a t-shirt."

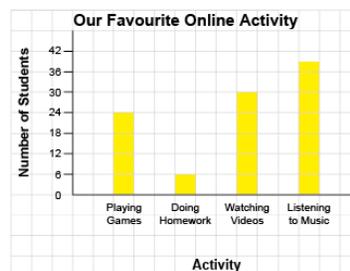
Uses inferences to make predictions about future events.

Number of Plastic Bottles Needed to Make Different Items



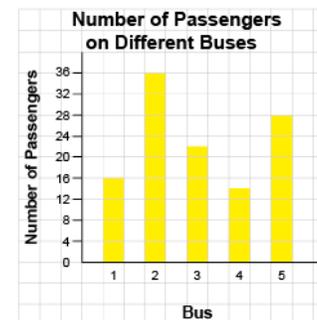
"More t-shirts could be made and sold with the fewest number of plastic bottles. I predict it would take less time to collect bottles and more money could be made. I think t-shirts should be sold for a fundraiser."

Interprets the results of data presented graphically.



"The bar graphs shows 99 students took the survey:  $24 + 6 + 30 + 39 = 99$ . 15 more students listen to music than play games on-line."

Analyzes and interprets data to make convincing arguments and informed decisions.



"Since most passengers are on bus number 2, the bus company might add another bus to that route. The company could take one of the schedule times from bus number 4 and give it to bus 2 because it has the fewest number of passengers. It is important to meet the needs of the passengers."

### Observations/Documentation