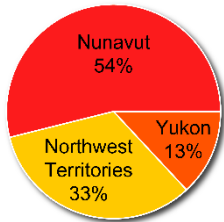# Lesson 5 Assessment
## Analyzing and Critiquing Given Data

## Analyzing and Critiquing Given Data

**Analyzes and interprets a given graph**

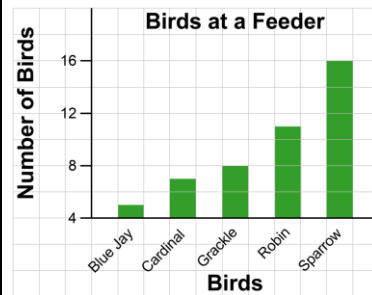**Areas of Canadian Territories**



The Northwest Territories is about one-third of the total area of the territories.
Nunavut is a bit more than one-half of the total area of the territories.

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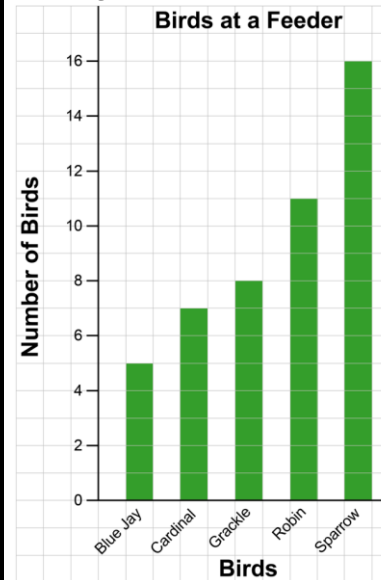**Identifies the misrepresentation in a graph**

Birds at a Feeder

| Blue Jay | 5 |
|----------|----|
| Cardinal | 7 |
| Grackle | 8 |
| Robin | 11 |
| Sparrow | 16 |



There are twice as many sparrows as grackles, but the graph appears to show that there are three times as many sparrows as grackles.

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**Corrects the misrepresentation in the graph**

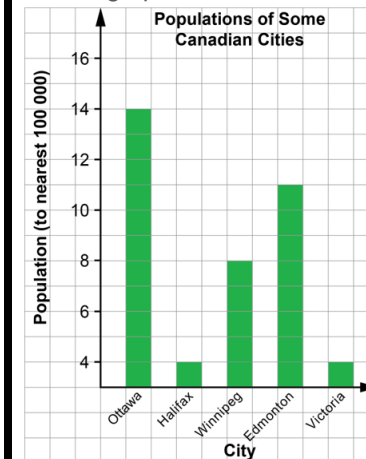Redraw the graph so the vertical axis begins at 0.



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**Constructs a graph to misrepresent data, and explains the misrepresentation**

Populations of some Canadian cities, to the nearest 100 000

| Ottawa | 1 400 000 |
|--------|-----------|
| Halifax | 400 000 |
| Winnipeg | 800 000 |
| Edmonton | 1 100 000 |
| Victoria | 400 000 |

I drew a bar graph with the vertical axis beginning at 300 000.
It shows that the population of Winnipeg is 5 times the population of Halifax, instead of 2 times.

Biased graph

**Observations/Documentation**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |