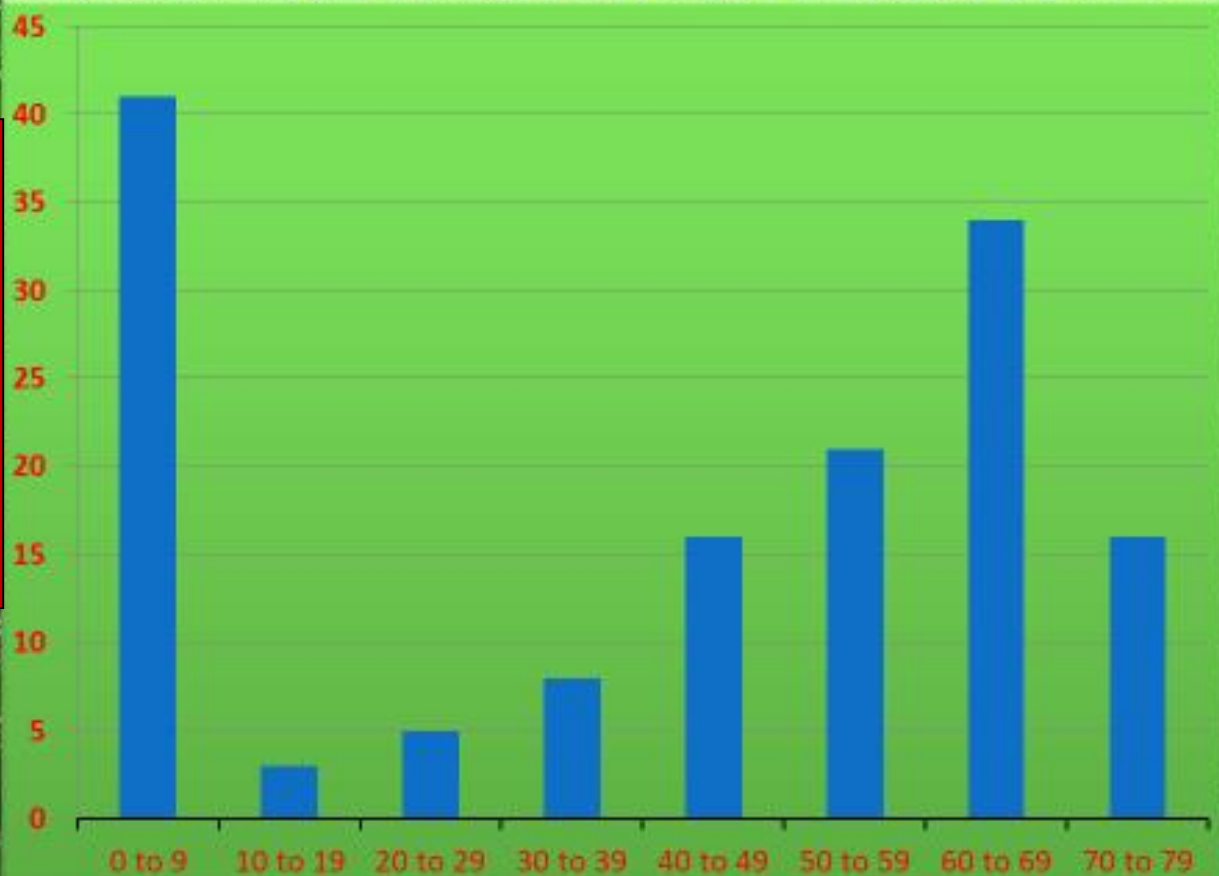


LO: I can use grouped data to construct a bar graph and interpret it.

*Height of trees in meters*



*Number of trees*

How many trees are between 70 & 79 metres tall?

How many trees and plants are 19 meters or less?

Which height had the greatest number of plants and trees in?

Do you think it would be easy to walk around this rainforest? Why or why not?

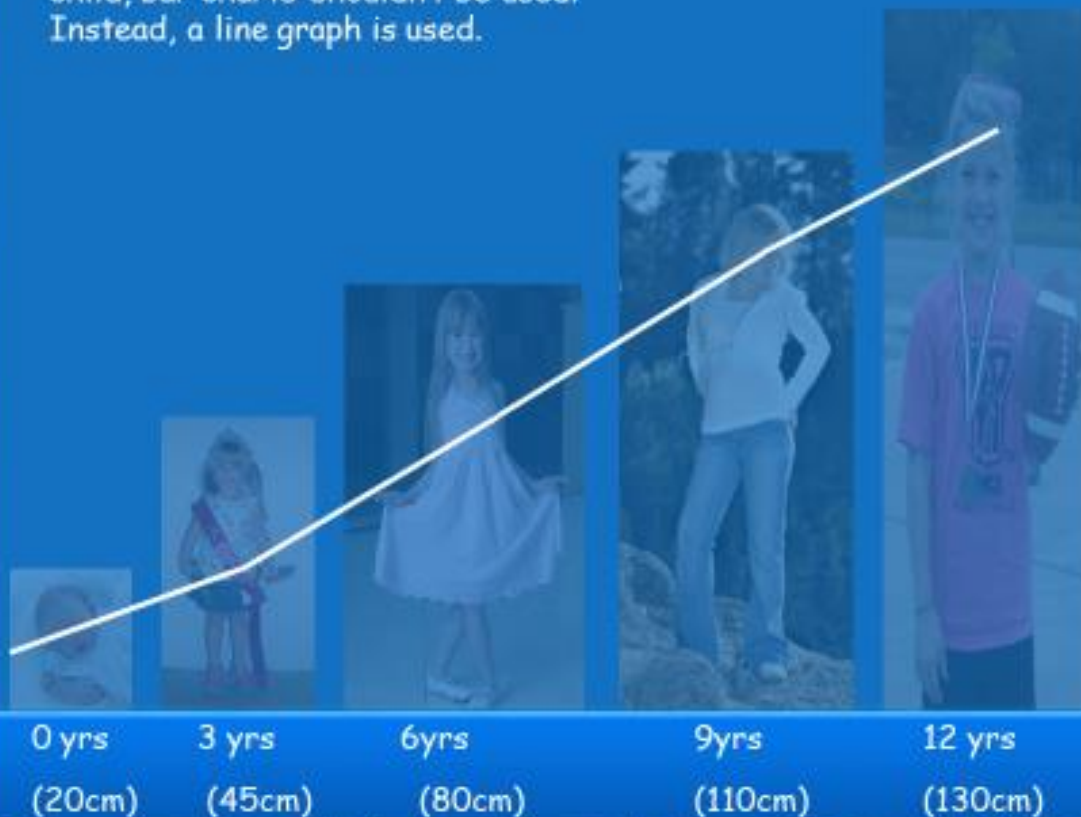
Have a go at creating your own bar chart using the following data.

| Height of trees in meters | Frequency |
|---------------------------|-----------|
| 0 - 9                     | 39        |
| 10 - 19                   | 5         |
| 20 - 29                   | 4         |
| 30 - 39                   | 9         |
| 40 - 49                   | 18        |
| 50 - 59                   | 23        |
| 60 - 69                   | 32        |
| 70 - 79                   | 18        |



LO: To construct and interpret line graphs.

For continuous data, such as the growth of a child, bar charts shouldn't be used. Instead, a line graph is used.



This data shows the growth of a tree in the Amazonian rainforest.

You need to use this data to make your own line graph.

The height will be your y axis and the age your x axis.

| Age of tree in years | Height of tree in meters |
|----------------------|--------------------------|
| 0                    | 0                        |
| 1                    | 1                        |
| 2                    | 2                        |
| 3                    | 10                       |
| 4                    | 14                       |
| 5                    | 20                       |
| 6                    | 29                       |
| 7                    | 33                       |



LO: To calculate the mode and range from data, and to solve problems from it.

Number of tree species per km<sup>2</sup> in 10 square km of tropical rainforest in Borneo:

| Square km | Number of tree species found |
|-----------|------------------------------|
| 1         | 420                          |
| 2         | 360                          |
| 3         | 370                          |
| 4         | 460                          |
| 5         | 500                          |
| 6         | 660                          |
| 7         | 660                          |
| 8         | 740                          |
| 9         | 660                          |
| 10        | 500                          |

**Mode** is the measurement that is the **most frequent**.

**Range** is the **difference** between the highest measurement and the lowest measurement.

What is the mode number of trees in a km<sup>2</sup>?

What is the range of the number of trees species found?