

Growth of Babies




Aim


- I can explain how babies grow and develop.
- I can present data.

Success Criteria

- I can demonstrate understanding of how babies grow in height.
- I can demonstrate understanding of how babies grow in height and weight.
- I can compare graph types and select which is most appropriate for my data.
- I can compare graph types to present complex data and explain which is most appropriate.





Did you know children grow on average 6-7 cm a year?! You grow at a pretty steady pace throughout childhood.




But what about the growth of babies? How quickly do they grow? Is it quicker or slower than children?

They do a lot of changing in the first twelve months of their lives including learning to roll, sit up, crawl, eat food and much more. Their brains are developing rapidly.





You are going to be presented with data on the growth in height of baby boys and girls from 0-12 months.



Look at the data carefully and think about the questions posed.

Data and Graphs

Growth in Height of Boys and Girls

Age	Height of Boys	Height of Girls
0 months	52cm	50cm
1 month	54cm	53cm
2 months	58cm	57cm
3 months	61cm	60cm
4 months	64cm	63cm
5 months	66cm	64cm
6 months	68cm	66cm
7 months	69cm	67cm
8 months	71cm	69cm
9 months	72cm	70cm
10 months	73cm	71cm
11 months	74cm	72cm
12 months	76cm	74cm

What does this data show us?

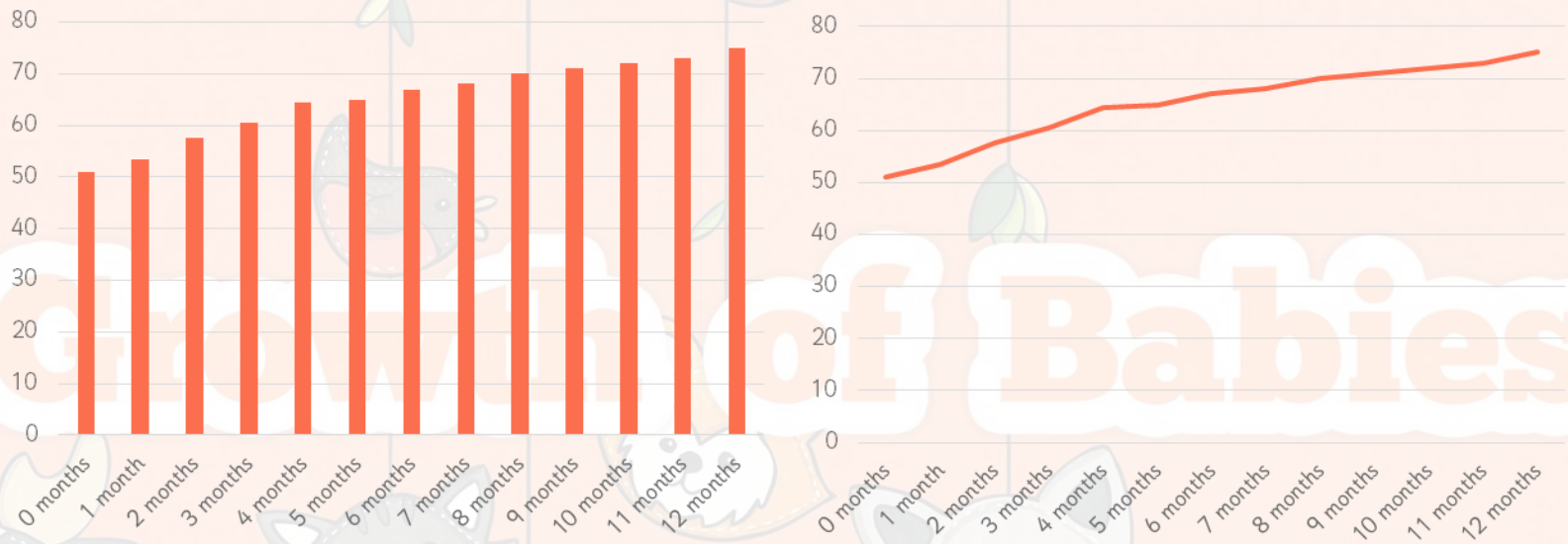
What are the categories?

What is the unit of measurement?

If this data was presented in a graph, what should be shown on the x/y axis? Why?

What kinds of graph should be used to present this data? Why?

Comparing Graphs

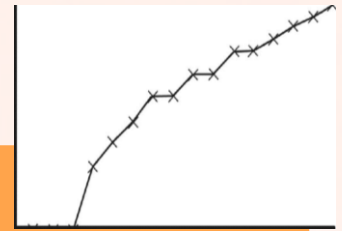


Which graph should the data be presented with? Why?

Why do scientists want to present their data clearly?

What are the problems if they don't?

Creating Graphs



You need to:

Draw a line graph showing the growth data for baby boys and girls. A line graph is most suitable as it shows change over a period of time (continuous data) – see example on next page

Success Criteria – use these in order for step-by-step instructions

- I can use a ruler to draw the x and y axis neatly on the lines
- I can use an appropriate scale
- I can mark my scale on the lines and space evenly
- I can use appropriate labels for the x and y axis
- I can create a key
- I can plot my data accurately and join plotted points with a ruler
- I can give my graph an appropriate title

You will need to create a key so it is clear which line shows the boy data and which shows the girl data.

See an example of a double line graph below:



Analysing Data

Now answer these questions:

What does the data tell you about how babies grow?

What differences are there in how boys and girls grow as babies?

Your data was an average (it shows typical growth). Some babies grow more or less than this. Why do you think this might happen?

Remember to refer to the data.

How does it prove your answers?