

Year 6 – Summer Block 3 – Statistics – Read and Interpret Line Graphs

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6S1) [Interpret and construct pie charts and line graphs and use these to solve problems](#)

More [Year 6 Statistics](#) resource.

Did you like this resource? Don't forget to [review](#) it on our website.

Year 6 – Summer Block 3 – Statistics
Hi Year Y6 – it's Wednesday 6th May 2020

Part 1

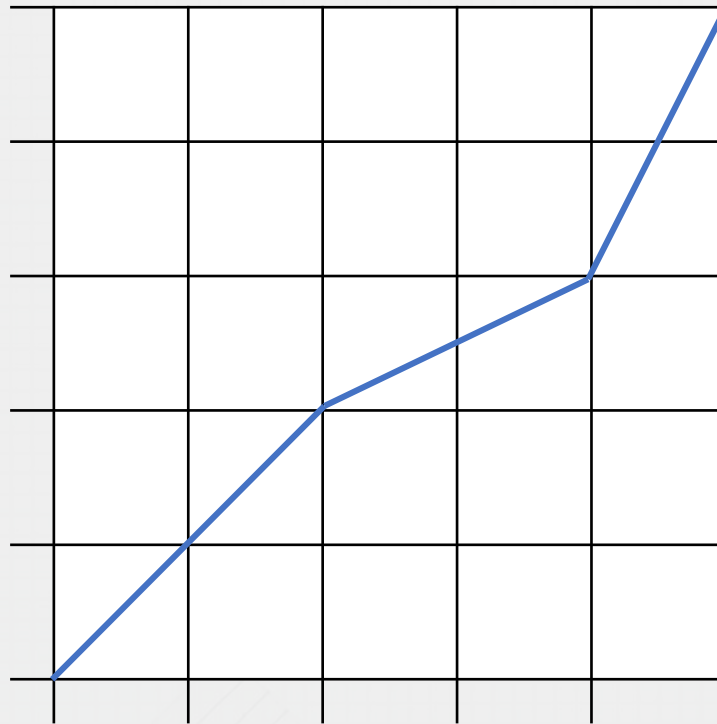
We are moving onto statistics today. This lot of lessons will be finished by the end of next week. Today is all about line graphs.

WALT Read and Interpret Line Graphs

*See my notes in green to
help you.*

Introduction

What's missing from this line graph?

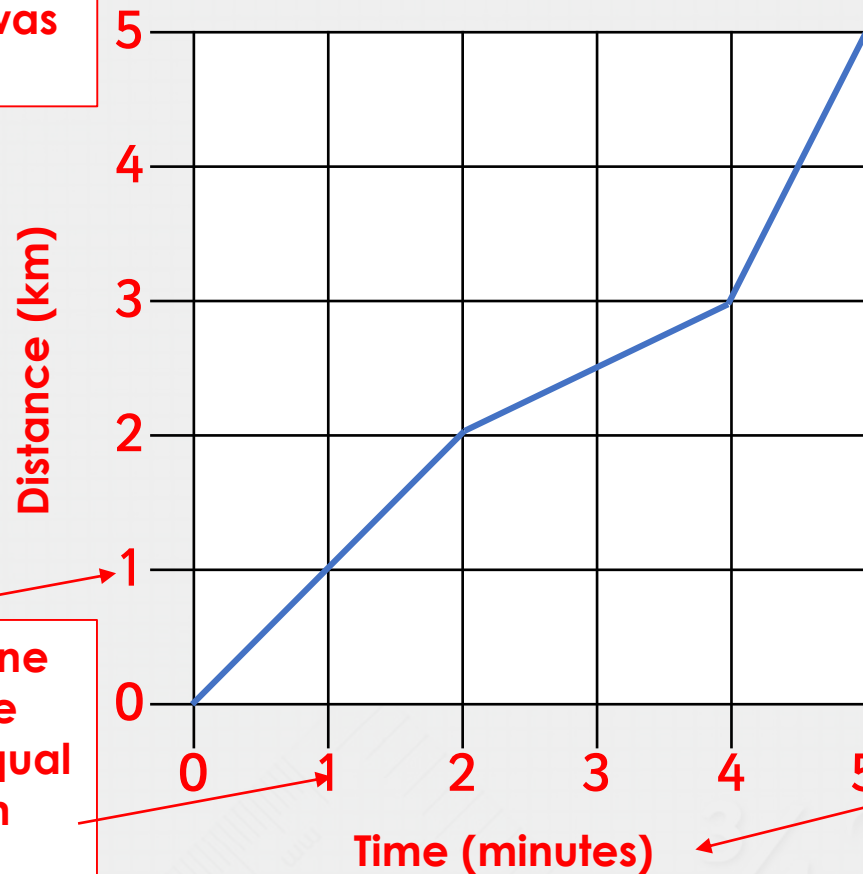


Introduction

What's missing from this line graph?

Label for the y axis –
a dependent
variable (what was
measured)

Title: A Graph to Show...



Scale – determine
an appropriate
scale that has equal
gaps between
numbers.

Label for the x axis –
an independent
variable (the thing
that changes)

Varied Fluency 1

Which of the following could you show on a line graph?

- A. Rainfall in two cities over a period of time.**
- B. Your classmates' favourite sports.**
- C. How long it takes 2 children to run the same distance.**

Varied Fluency 1

Which of the following could you show on a line graph?

A. Rainfall in two cities over a period of time.

B. Your classmates' favourite sports.

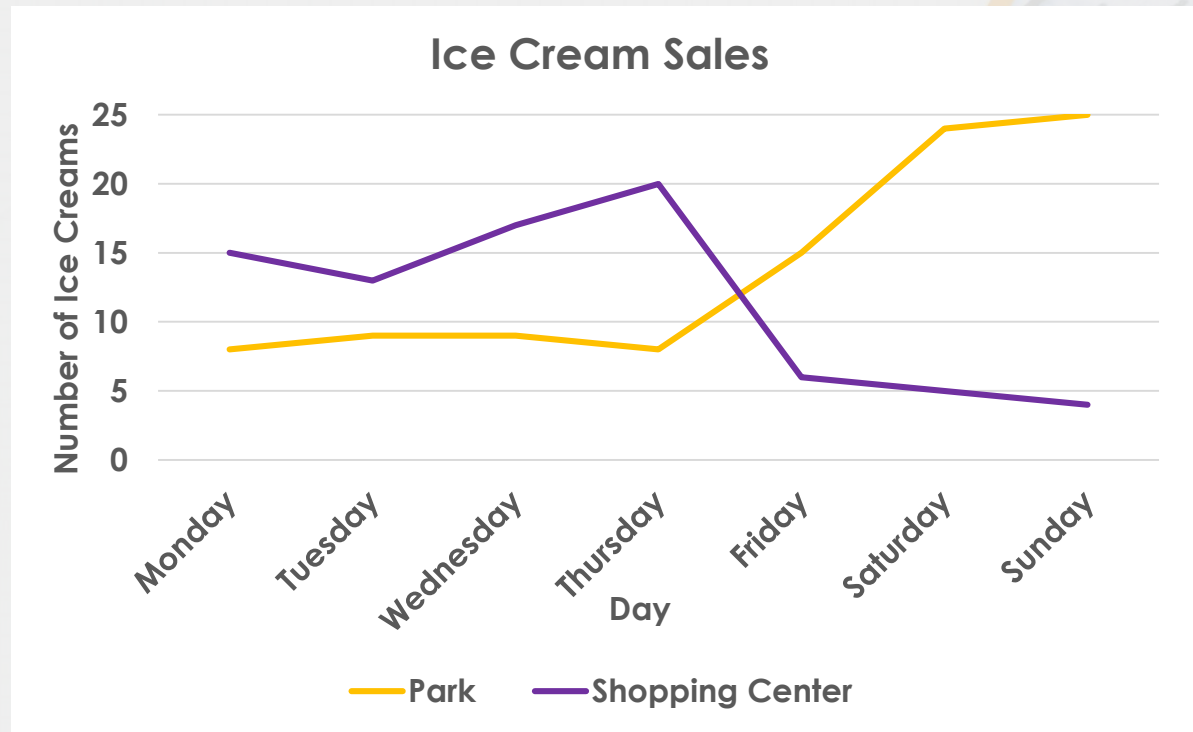
C. How long it takes 2 children to run the same distance.

Remember that line graphs represent data that tracks changes over time. They're also useful for showing several lots of data over the same period – like when we represented how many star jumps we all did in PE in term one week by week. Showing your classmates' favourite sports would be better represented by a bar graph.

Varied Fluency 2

True or false?

On the weekend, more ice creams are sold at the park than the shopping centre.

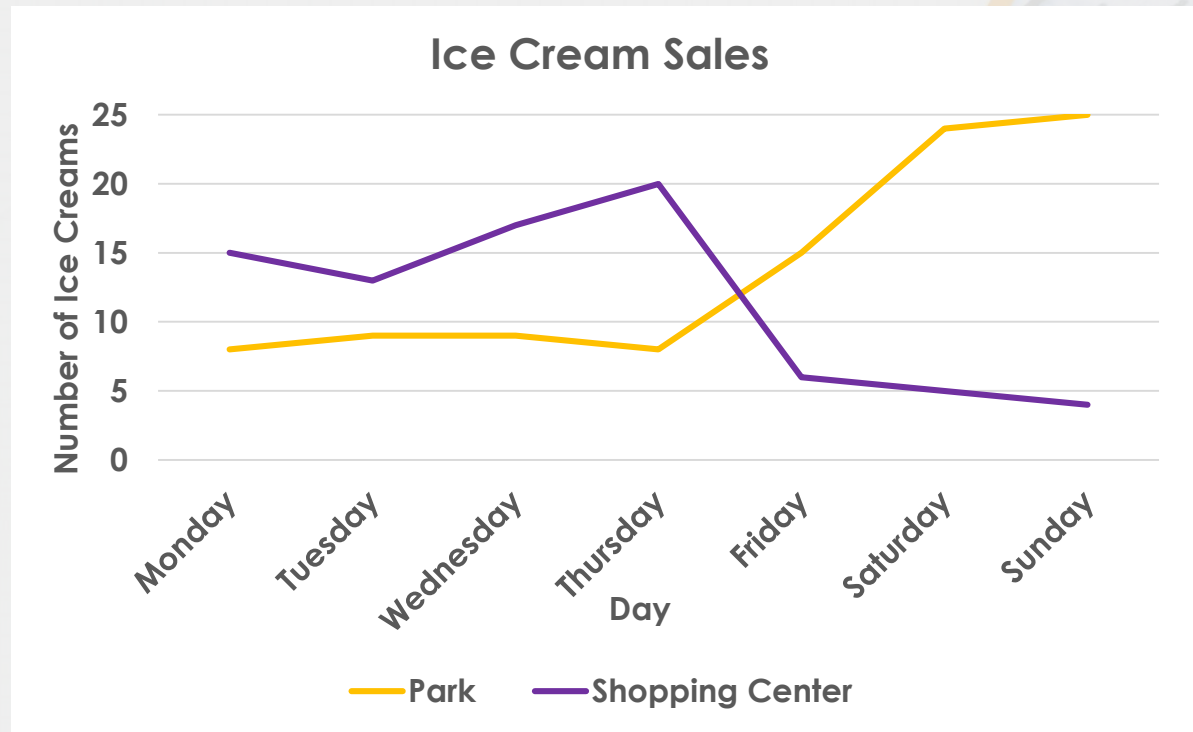


Varied Fluency 2

True or false?

On the weekend, more ice creams are sold at the park than the shopping centre.

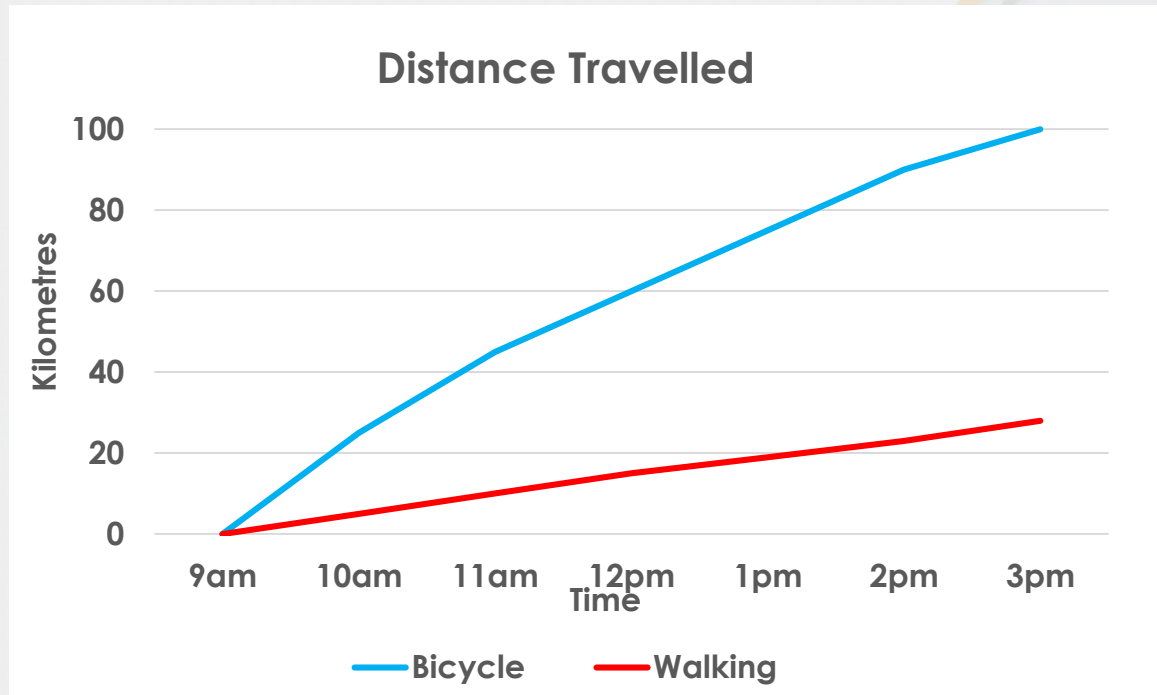
True



Varied Fluency 3

According to the graph, which statements are correct?

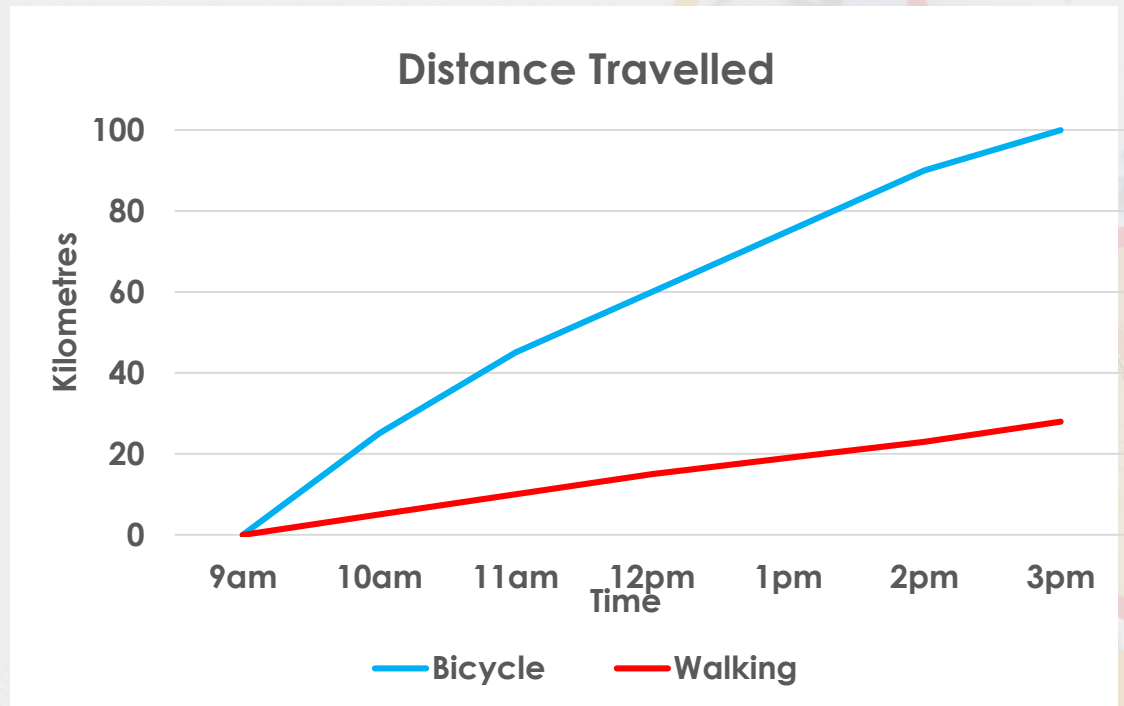
- A. Both travelled the same distance because the lines both end at 3pm.
- B. The cyclist travelled about 4 times further than the person walking by 3pm.



Varied Fluency 3

According to the graph, which statements are correct?

- A. Both travelled the same distance because the lines both end at 3pm.
- B. The cyclist travelled about 4 times further than the person walking by 3pm.



**B is correct.
A has mixed up
what information is
shown by each axis
on the graph.**

Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first three questions on your chosen challenge – the ones on the left-hand side. If you want extra practice, you can then do the three questions on the right hand side of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.