



Year 3

Maths Mastery Activities

In this pack you will find activities for all of the Year 3 Statistics objectives that will allow children to demonstrate mastery in each objective. They could be used to introduce a maths topic, as a problem solving task or as an extension/challenge activity.

On the contents page, you will find links (either use ctrl click or run the PowerPoint) to all the different objectives and the activity to demonstrate mastery. The activities are designed to be printed and cut out so that children can stick them into books before completing the task. You can return to page 1 of the contents page by using the link in top left of each sheet.

Answers (where appropriate) have also been included.

This resource will save you the hours of time it takes to keep on finding or creating resources for each objective that will allow children to demonstrate mastery and it provides an excellent evidence base for teacher judgements.

If you have any questions or issues with the resource, please contact me at mrlongsmaths@gmail.com

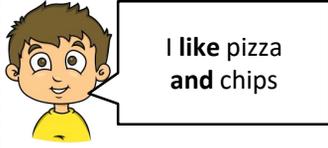
Statistics

- Interpret and present data using bar charts, pictograms and tables
- Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables

LO: Interpret and present data using bar charts, pictograms and tables

The children have been **sorted** depending on whether they like **pizza** and **chips**. However, **one** of them is in the **wrong box** and another one is **missing**.

Can you **fix** the Carroll diagram?



Ben



Danny

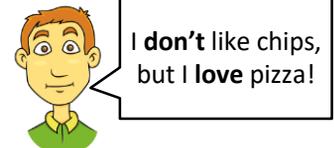


Jill

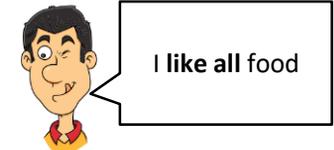
	likes pizza	does not like pizza
likes chips	Ben	Danny Jill
does not like chips	Jack	Mariam



Mariam



Jack



Omar

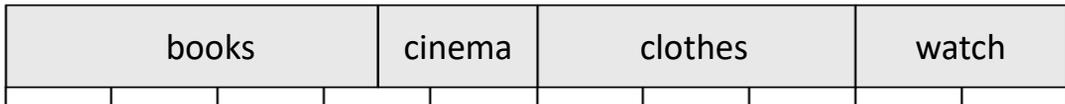
Look at this **pictogram**. It shows a group of children's favourite animal:

= 3 children



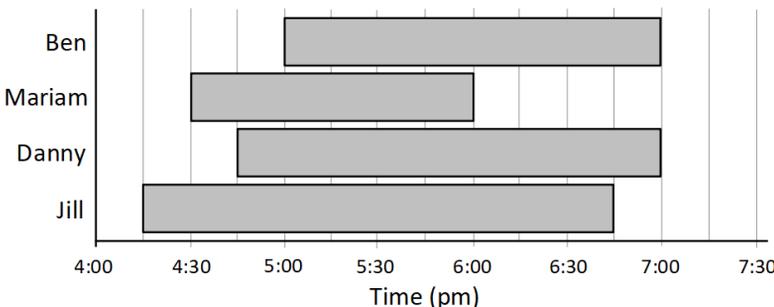
Can you spot the **problem** with this pictogram? **Explain** your reasoning...

This bar represents how Mariam spent her **£100** birthday money...



Write down **all** the **information** you can get from this **chart**...

This bar chart shows how when the children were watching TV one evening...



ANSWER SHEET

The children have been **sorted** depending on whether they like **pizza** and **chips**. However, **one** of them is in the **wrong box** and another one is **missing**.

Can you **fix** the Carroll diagram?

		likes pizza	does not like pizza
likes chips	Ben Omar	Danny Jill	
does not like chips	Jack	Mariam	

Ben: I like pizza and chips

Danny: I like chips, but I don't like pizza

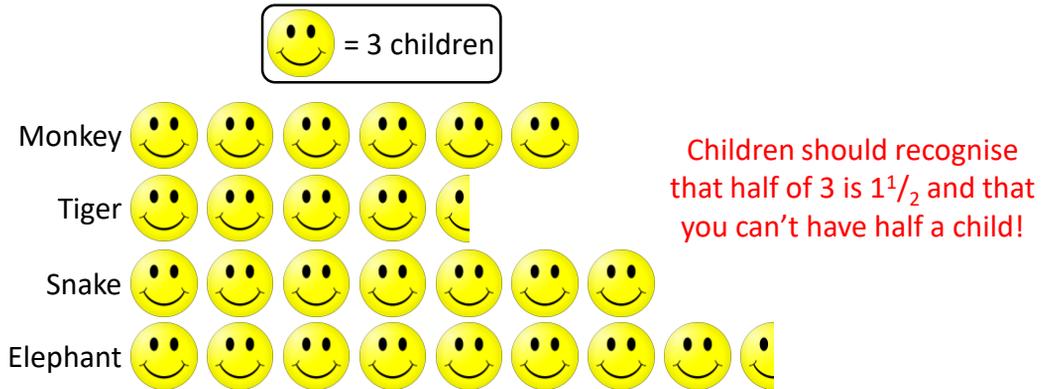
Jill: I like pizza, but I don't like chips

Mariam: I don't like pizza or chips

Jack: I don't like chips, but I love pizza!

Omar: I like all food

Look at this **pictogram**. It shows a group of children's favourite animal:



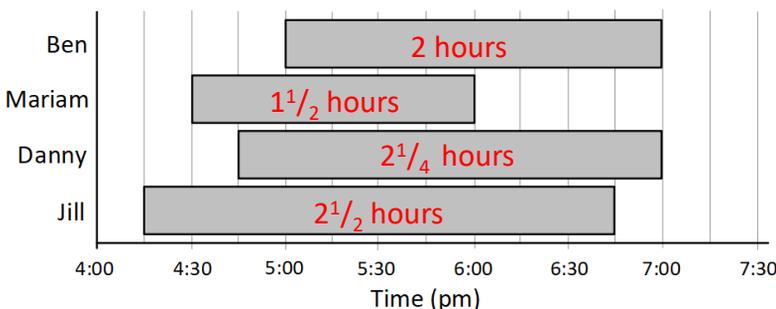
Can you spot the **problem** with this pictogram? **Explain** your reasoning...

This bar represents how Mariam spent her **£100** birthday money...

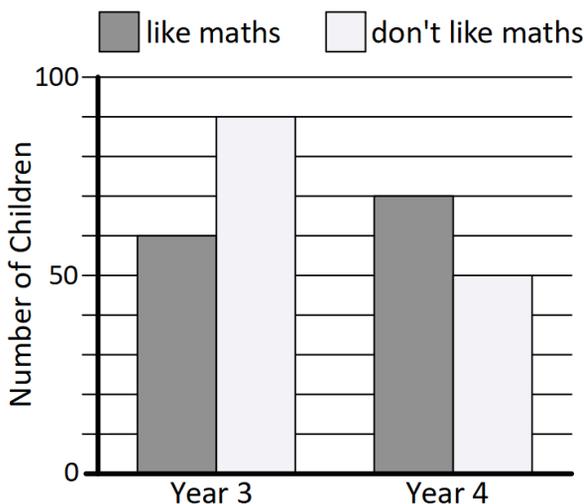


Answers will vary. As well as how much she spent on each thing children could also work out differences between or express in fractions e.g. she spent $\frac{3}{10}$ of the money on clothes

This bar chart shows how when the children were watching TV one evening...



What does this bar chart show?



Write **questions** that could be asked about this chart...
(try to include **two-step** questions)



Danny and Ben have **three** lollipops **between** them...



blue (B)



red (R)



green (G)

Complete this table to show what each boy could have:

Danny	B							
Ben	R	G						

This is part of a bus timetable, but some of the information is missing:

Bus Station	High Street	Supermarket	St Andrew's Church	St Andrew's School	Oak Tree Park	Sport Centre	Police Station
			10:01				

Use these **clues** to **complete** the timetable...



The supermarket is exactly **half way** between the **High Street** and the **Church**



The **entire** bus journey takes **58 minutes**



It takes the bus **9 minutes** to get to the **High Street**



The bus stops at the **School** at **quarter past 10** and then the **Park** **3 minutes later**



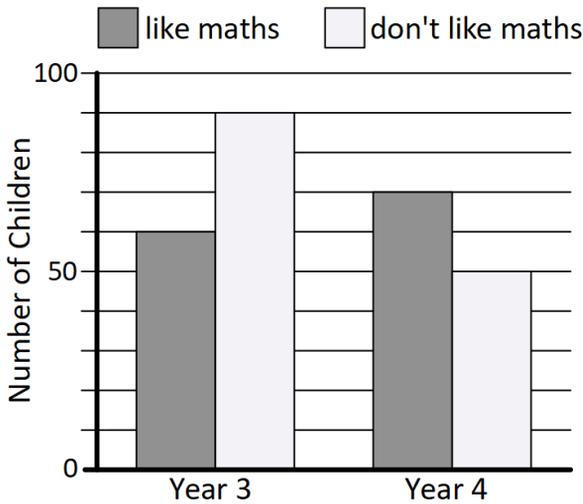
The bus leaves the **Bus Station** at **9:32**



The bus gets to the **Sport Centre** **8 minutes before** the **Police Station**

ANSWER SHEET

What does this bar chart show?



It shows the children who do or do not like maths in years 3 and 4

Children should write a variety of questions including comparisons, finding the difference and finding the total



Danny and Ben have **three** lollipops **between** them...



blue (B)



red (R)



green (G)

Complete this table to show what each boy could have:

Danny	B	B R	B ^G _R	G	G _B	R	R _G	
Ben	R _G	G		B R	R	G _B	B	B ^G _R

Order may vary

This is part of a bus timetable, but some of the information is missing:

Bus Station	High Street	Supermarket	St Andrew's Church	St Andrew's School	Oak Tree Park	Sport Centre	Police Station
9:32	9:41	9:51	10:01	10:15	10:18	10:22	10:30

Use these clues to complete the timetable...



The supermarket is exactly **half way** between the **High Street** and the **Church**



The **entire** bus journey takes **58 minutes**



It takes the bus **9 minutes** to get to the **High Street**



The bus stops at the **School** at **quarter past 10** and then the **Park** **3 minutes later**



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