



# 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.



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**.

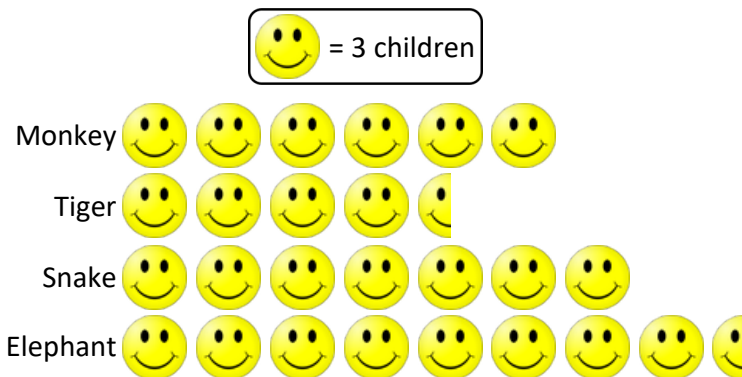
Can you **fix** the Carroll diagram?

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

 I like pizza and chips  
 Ben  
 I like chips, but I don't like pizza  
 Danny  
 I like pizza, but I don't like chips  
 Jill

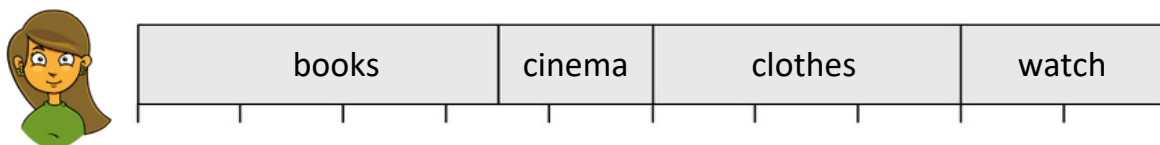
 I don't like pizza or chips  
 Mariam  
 I don't like chips, but I love pizza!  
 Jack  
 I like all food  
 Omar

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



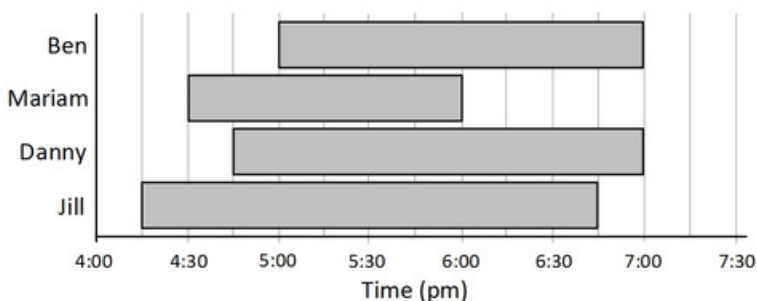
Can you spot the **problem** with this pictogram? **Explain** your reasoning...

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



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

This bar chart shows how long 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

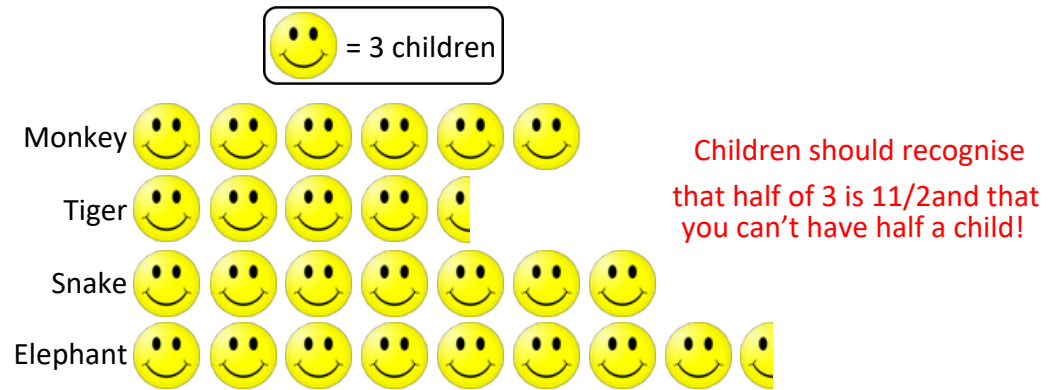
Jill: I like pizza, but I don't like chips

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:



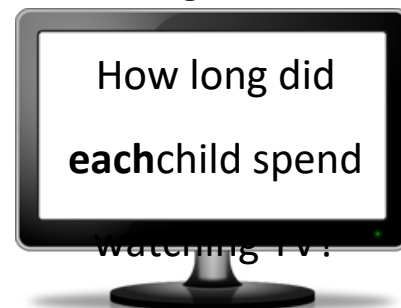
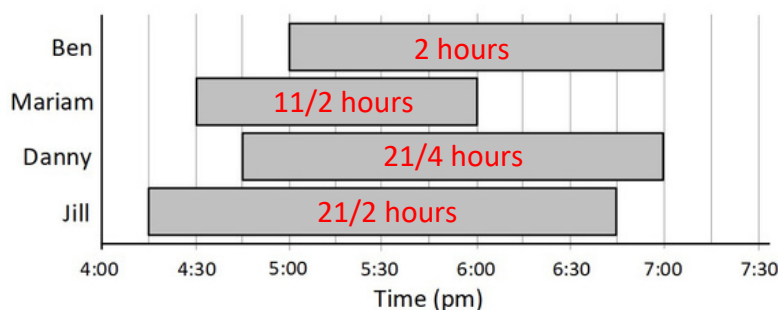
Can you spot the **problem** with this pictogram? **Explain** your reasoning...

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



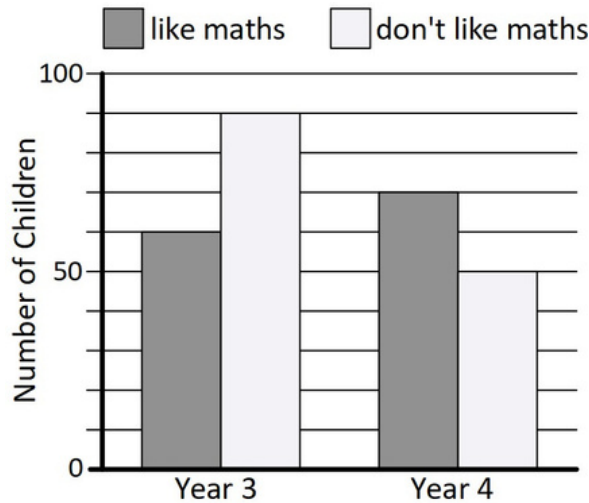
Answers will vary. As well as how much she spent on each thing children could also work out differences between or express in fractions e.g. she spent  $\frac{3}{10}$  of the money on clothes

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



LO: Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables

What does this bar chart show?



Write **question**s 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 **halfway** 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



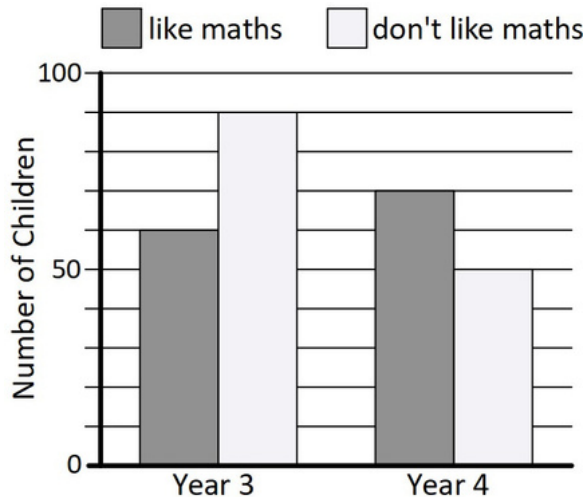
The bus leaves the **Bus Station** at **9:32**



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 B	Order may vary
Ben	R G	G		B R	R	G B	BGR

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 **halfway** 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**



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