



Sorting data and picture graphs worksheet

For this activity you will need:

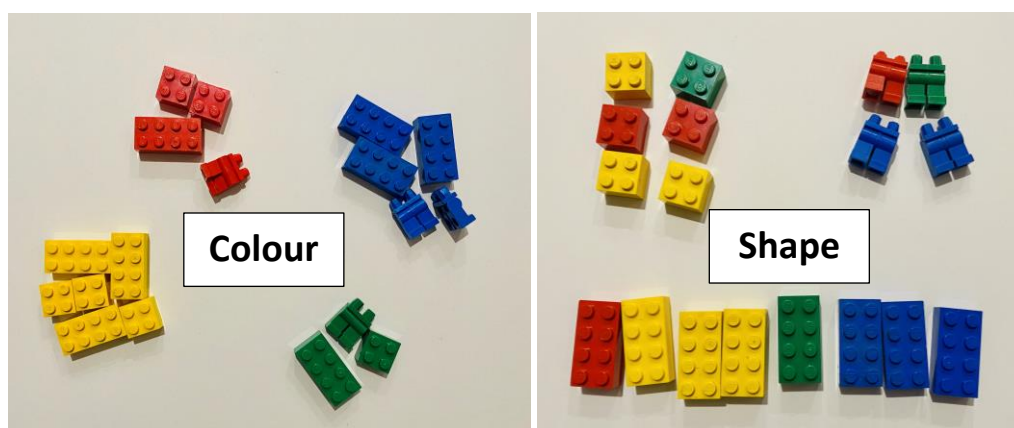
- About 20 small differently coloured items to use for sorting. For example beads, buttons, small cars, laundry or building blocks such as LEGO.
- A4 paper and coloured pencils.

1. Watch [Sorting Data and Picture Graphs Video 1](#).

a. Sort some items from your home.

What can you find in your house to sort? Do you have some beads or building bricks you can use? How about the washing? Can you help out by sorting the washing by type or who it belongs to? Gosh that would be a lot of fun!

In the video we used building bricks as our data and sorted them in two ways; first by colour and then by shape.





Here are some other examples:



The cars are categorised by colour and the beads by type.



This cutlery is categorised by type as well.

Find about 20 things from around your home. Then sort your things into groups like colour, shape or size. Come up with a category name for each of the groups.

When you have finished, take a photo so you can use this information in the next activity.

Ask an adult to help you make a video of you explaining the way you sorted your data.

In your video, tell your teacher:

- What you are sorting. *For example, I sorted building blocks.*
- How you are sorting them. *For example, I sorted my blocks by colour.*
- The names of your categories. *For example, my categories are red, blue, yellow and green.*

Send your video to your teacher.

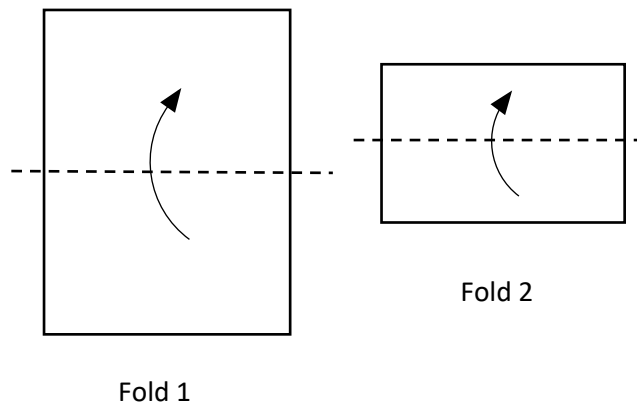


b. Optional extension activity.

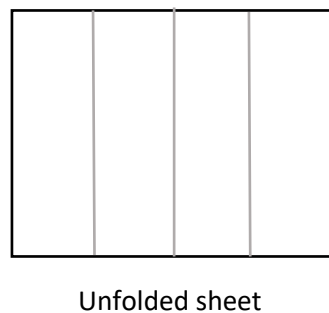
Sort your data in a different way. Think about shape, size and type. Take a photo or make another video to send to your teacher.

2. Watch [Sorting Data and Picture Graphs Video 2.](#)

a. Look at the picture of your data sort from the last activity. If you sorted into 4 categories or less, fold one piece of paper into four columns like this. If you had more categories you need to fold **two** pieces of paper like this.

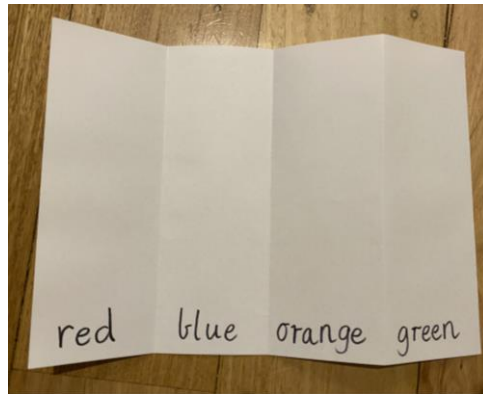


Then unfold your paper. It should look like this.

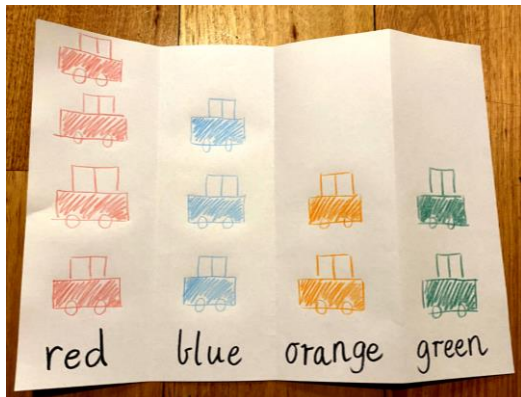




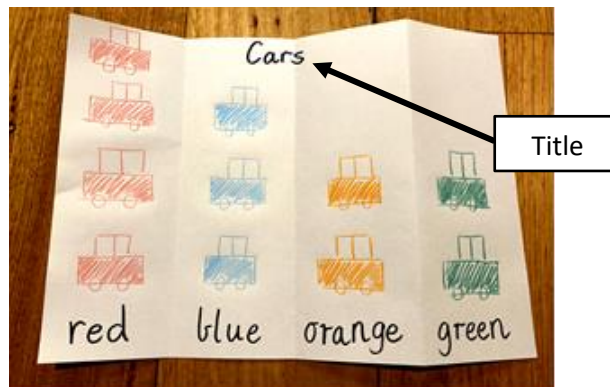
b. Now write the name of your categories at the bottom of your sheet. Remember, don't worry too much about your spelling. Just have a go! Here is an example.



Then add the pictures to your columns to show how many items you had in each of your categories.



Finally, add the title. Using the name of whatever you sorted is a great idea for a title. In my example, I used 'Cars' for my picture graph about car colours.





When you have finished your picture graph, take a photo and send it to your teacher along with your sorting photos from the first activity.

Optional extension activity

Can you record your sorting information in a table? Here is an example of a table made from the cars picture graph.

Category name	Colour	Number of cars	Number of things being sorted
	red	4	
	blue	3	
	orange	2	
	green	2	