

Graphs and pie charts

Name _____ Date _____

Tutor Feedback

Designing a garden

Task 1

Sort your Smarties into colours.

How many different colours are there?



Count the number of Smarties in each colour and record in the table below.

Colour	Tally	Number
Total number of Smarties		

Check your total is correct by counting all the Smarties.

Task 2 - Extracting information

1. From your tally chart, which colour has the highest number of sweet? _____
2. Which colour has the lowest number of sweets? _____
3. What is the difference between the highest and lowest number? _____

This is the RANGE

4. In the table below write down the name of everyone in your group.

Name	Number of colours	Total number of sweets
Total number of sweets in group		

5. Who had the most sweets? _____
6. Who had the least sweets? _____
7. What is the range in the number of sweets for your group? _____
8. What is the mean (average) number of sweets? _____

Task 3 – Representing data – bar graphs

On the graph paper provided and using your figures in **task 1**, create a bar graph to represent the quantities of the different colours.

Task 4 – Representing data – pie charts



- Put 30 of your Smarties to one side then eat the rest!
- A circle has 360 degrees. How many degrees will be represented by one Smartie? _____
- Work out how many degrees are needed for each colour and record it in the table below.

Colour	Number of degrees

Check that the total number of degrees equals 360

- Using a protractor, draw a pie chart showing your information. Make sure that it is coloured correctly, with a key and title, to show the proportions of colours of Smarties in your tube.

Add numbers to the pie chart to show how many of each colour were in your set of 30 Smarties.