

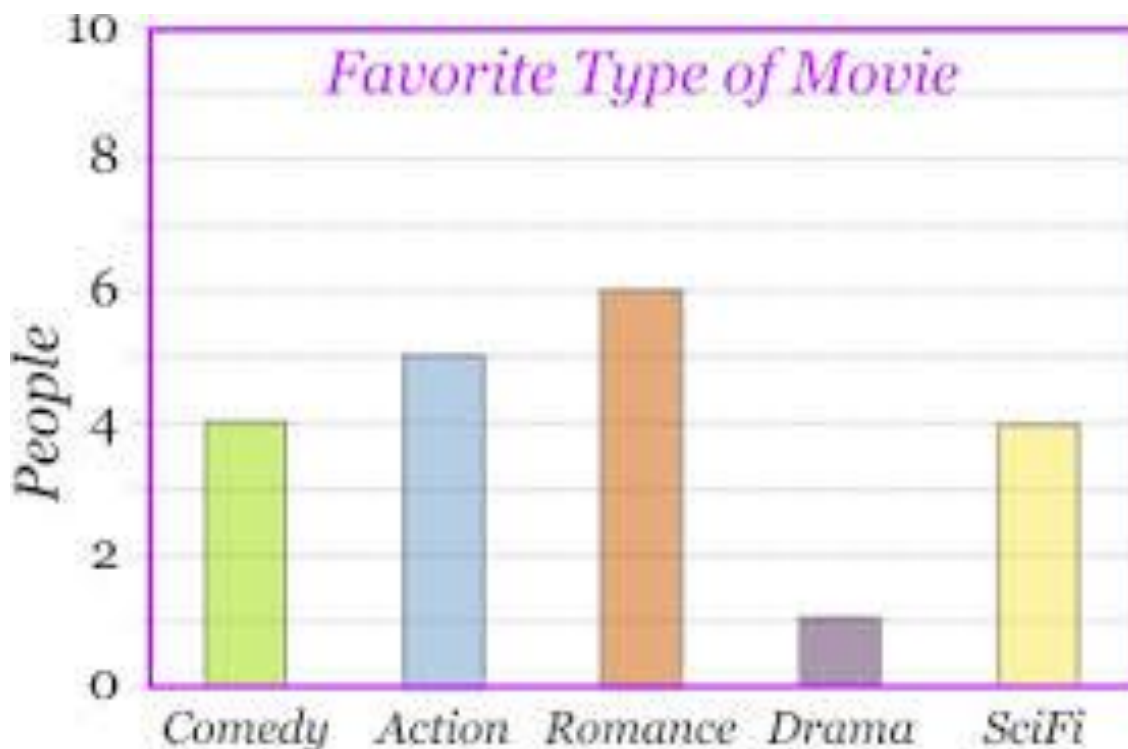
Today, we are going to be creating bar charts and line graphs of our own. You will need a ruler, a pencil and some colouring pencils.

Remember, on a graph you have an x axis and a y axis. The x axis is the horizontal line that goes across your page where each bar starts from. The y axis is vertical (goes upwards) and measures each bar's height.

Here is a bar chart:

A bar chart to show preferences of movie types in a class.

| Film type | Comedy | Action | Romance | Drama | SciFi |
|------------------|--------|--------|---------|-------|-------|
| Number of people | | | | | |



The x axis has the different types of films people watch. The y axis measures each film. Have you noticed that the y axis is going up in 2's? That means, when a bar does not line up with an exact number written on the scale, you have to work out what halfway between each of those numbers would be. For example, the amount of people who enjoy action films the most is not at exactly 4 or 6. Therefore, it must be 5 as the blue bar is exactly half way between 4 and 6.

Please work out the following questions and fill in the gaps in the table above the bar chart.

How many people enjoy comedies?

How many people enjoy romances?

How many people enjoy dramas?

How many people enjoy SciFi?

Which is the least popular genre?

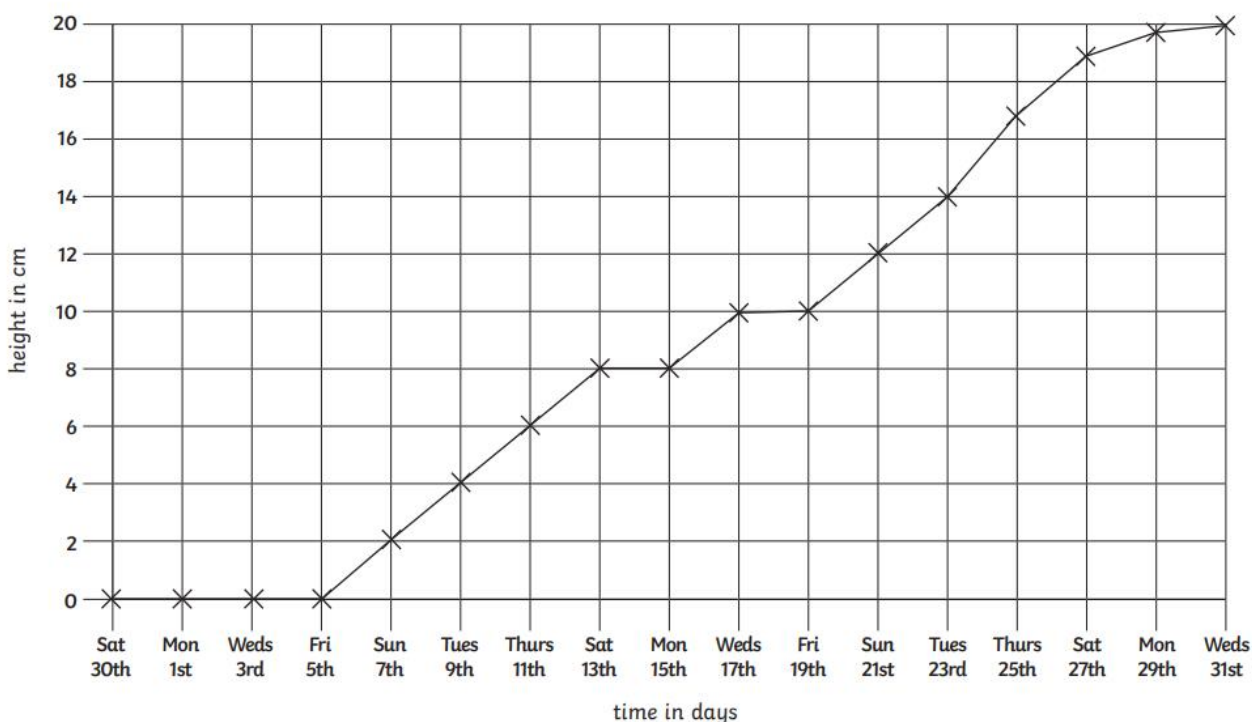
How many more people prefer romances than comedies?

Now let's look at an example of a line graph.

| Date | 30th | 1st | 3rd | 5th | 7th | 9th | 11th | 13th | 15th | 17th | 19th | 21st | 23rd | 25th | 27th | 29th | 31st |
|-------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| Height (cm) | | | | | | | | | | | | | | | | | |

Sunflower Line Graph

Here is a line graph showing a sunflower's growth. It was planted on Saturday 30th July and its height was measured every 2 days.



You can see that from the 30th - 5th , the sunflower didn't grow as it was 0cm.

How tall was the sunflower on the 15th?

When was it at its tallest?

How many centimetres did the sunflower grow between the 5th and the 14th?

Please fill in the heights in cm into the table above the graph.

Task:

Today I would like you to create a bar chart and a line graph of your own using the data below. Use colours for your bar chart once you have finished.

Remember, your graph should have a title and a table too. Both axis should be labelled clearly and every line you draw should be neat and straight. Accuracy is key.

Bar chart data:

A bar chart showing preferences in colour in a class.

| | | | | | | | |
|---------------------|------|--------|-----|------|--------|-------|--------|
| Colour | pink | orange | red | blue | purple | green | yellow |
| Number of children: | 4 | 2 | 7 | 6 | 3 | 1 | 8 |

Line graph data:

A line graph showing the amount of rainfall in Wistow over 1 week.

| | | | | | | | |
|----------------|--------|---------|-----------|----------|--------|----------|--------|
| Day | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| Rainfall in mm | 8mm | 7mm | 9mm | 5mm | 5mm | 4mm | 2mm |