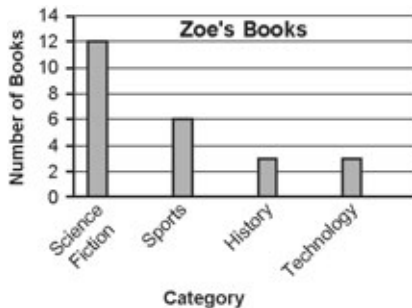
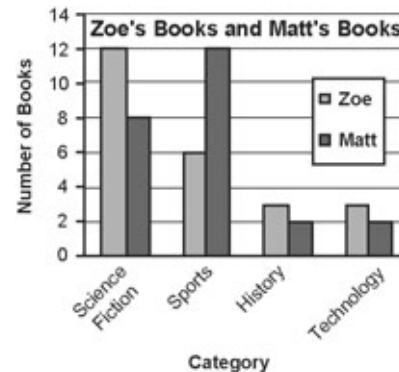


### Bar Graphs and Double Bar Graphs

The **bar graph** shows that Zoe has twice as many science fiction books as books about sports.



The **double bar graph** shows that Matt has twice as many sports books as Zoe has.



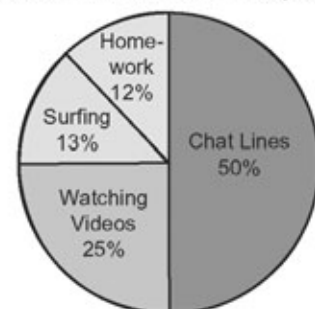
The bars in bar graphs can be vertical or horizontal. Bar graphs leave space between each data category.

- Use the bar graph about Zoe's books to answer these questions.
  - How many more books does Zoe have about science fiction than history?
  - If the bars were drawn horizontally, what would change on the graph? What would stay the same? Redraw the bar graph using horizontal bars.
- Use the double bar graph to answer these questions.
  - How many more science fiction books does Zoe have than Matt?
  - How many more sports books does Matt have than history books?
  - Write another question you could ask about the graph. Develop an answer for your question.

### Circle Graphs

The **circle graph** shows the different activities that Akira does online.

Akira's Week on Internet (20 h)

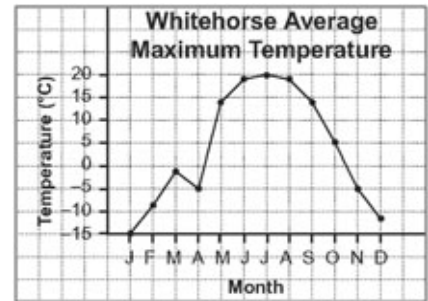


3. Use the circle graph to answer these questions.
- What activity did Akira spend the most time on? How many hours did she spend?
  - How much more time does Akira spend on chat lines than surfing?

- What percent of her Internet time is not spent watching videos?
- Would this circle graph make sense if the titles or labels were missing? Explain.

### Line Graphs

The **line graph** shows changes in average maximum temperature for each month in Whitehorse, Yukon Territory.

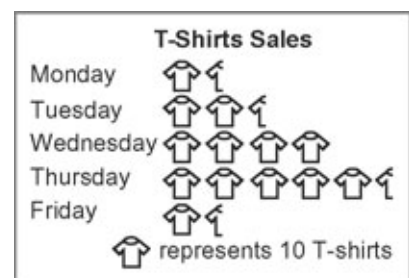


4. Use the line graph to answer these questions.
- Which month had the highest average maximum temperature?
  - When did the greatest temperature change happen?

- When did the smallest temperature change occur?
- Do you think the trend of rising and falling temperatures will continue? Explain.

### Pictographs

The **pictograph** shows that more T-shirts were sold on Thursday than the rest of the week.



5. Use the pictograph to answer these questions.
- How many more T-shirts were sold on Thursday than on Friday?

- How many T-shirts were sold during the week?
- Explain how you used the pictograph to answer a) and b).