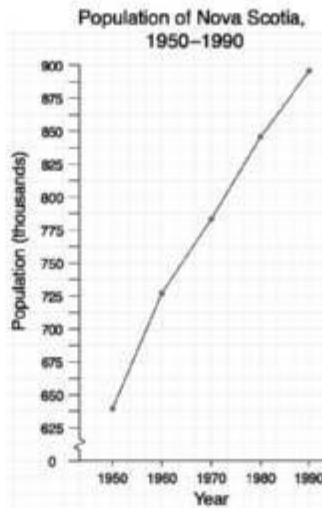


- Choose an appropriate scale.  
Count by 10s for the scale on the horizontal axis.  
The horizontal scale is 3 squares represent 10 years.  
Count by 25s for the scale on the vertical axis.  
The vertical scale is 2 squares represent 25 000.
- Mark a point for 1950 at 638 000.  
Then mark points for the rest of the data in the same way.
- Use a ruler to connect each consecutive pair of points, from left to right.
- Give the graph a title.
- On a line graph, when the line segments:
  - go up to the right, the graph is increasing
  - go down to the right, the graph is decreasing
 The graph goes up to the right.  
The population in Nova Scotia increased from 1950 to 1990.

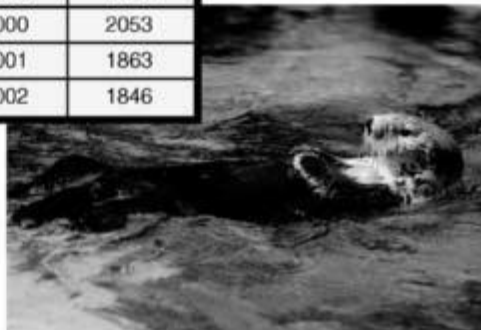


## Practice

You will need grid paper.

1. A survey of the population of southern sea otters is done each year. The table shows the results from 1998 to 2002.
  - a) Draw a line graph to display these data.
  - b) Explain how you chose the vertical scale.
  - c) What happened to the number of sea otters from 1998 to 2002? How can you tell from the graph?

Year	Number of Otters
1998	1955
1999	1858
2000	2053
2001	1863
2002	1846



2. This table shows the growth of Rajiv's cucumber vine.

Day	1	2	3	4	5	6	7	8	9	10
Length of Vine (mm)	0	1	7	15	27	35	41	48	53	57

- Draw a line graph to display these data.
- What does the line on the graph show?
- Write 2 things you know from the graph.



3. This table shows the number of beekeepers in Ontario from 1994 to 2003. The numbers are rounded to the nearest 100.

- Draw a line graph to display these data.
- How did you choose the scale?
- What is happening to the number of beekeepers in Ontario?  
How does your graph show this?
- How many beekeepers do you think there were in Ontario in 2004?  
Explain your prediction.

Year	Number of Beekeepers
1994	4500
1995	4300
1996	4100
1997	4100
1998	4000
1999	3600
2000	3000
2001	3000
2002	3000
2003	2700



## At Home

### Reflect

You can display data using a line graph, a bar graph, or a pictograph. Describe a situation that best suits each type of graph. Explain your thinking.

Look through newspapers and magazines, or on the Internet. Find a line graph. Describe the graph. What information do you get from the graph?