Surf Stats

You need: square grid paper or a computer

Jared and Dave are cadets at the local surf life saving club. They are helping on patrol. The patrol leader shows them a table of the number of rescues each month over the last 2 years.

Year 1		Year 2	
Month	Rescues	Month	Rescues
June	4	June	3
July	0	July	1
August	3	August	0
September	0	September	1
October	1	October	8
November	8	November	4
December	17	December	11
January	38	January	24
February	26	February	18
March	9	March	7
April	15	April	12
May	4	May	3

SURF LIFE SAVING CLUB
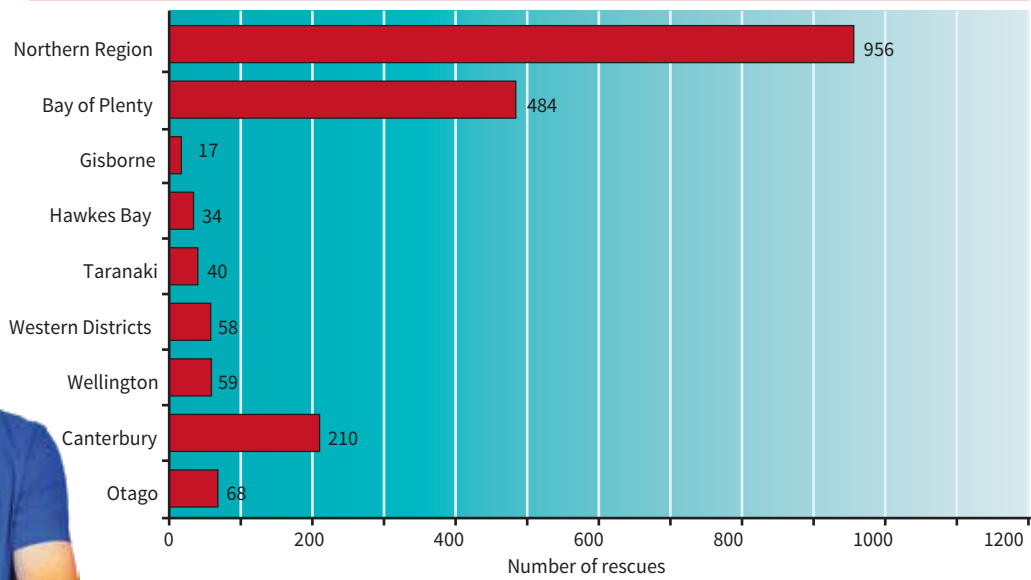
Jared
CADET

SURF LIFE SAVING CLUB

Dave
CADET

1. Create a line graph showing the data for both years.

2. a. In which month is the number of rescues highest? Suggest reasons for this.
   b. Compare the two years. Is the number of rescues going up or down?
      Suggest reasons for this.
   c. What month has an unexpected number of rescues?
      Write a sentence about this outlier, including possible explanations.

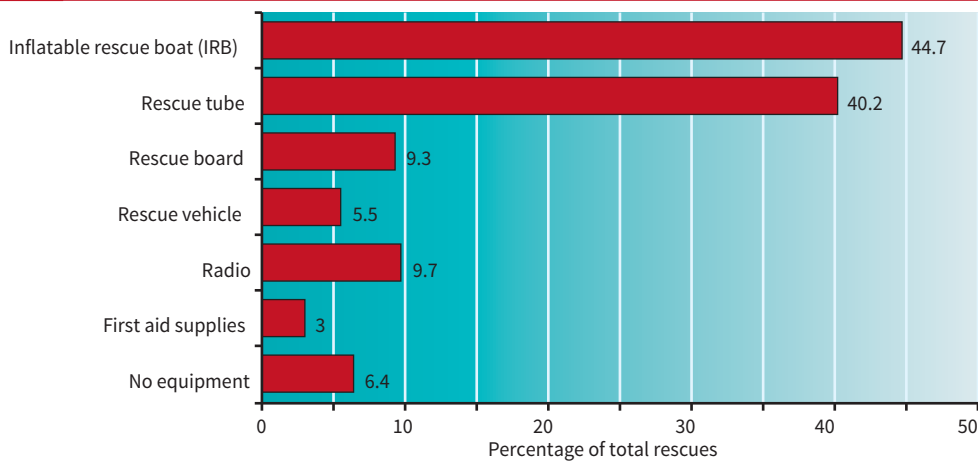3. Dave found a graph showing the number of surf rescues in each region.

Surf Rescues (2001-02)

Region	Number of rescues
Northern Region	956
Bay of Plenty	484
Gisborne	17
Hawkes Bay	34
Taranaki	40
Western Districts	58
Wellington	59
Canterbury	210
Otago	68

Number of rescues

Write a paragraph describing what the graph shows.

4. Jared and Dave found another graph showing what equipment is used in rescues.

Equipment Used in Rescues (2001-02)

Equipment	Percentage of total rescues
Inflatable rescue boat (IRB)	44.7
Rescue tube	40.2
Rescue board	9.3
Rescue vehicle	5.5
Radio	9.7
First aid supplies	3
No equipment	6.4

Percentage of total rescues

a. What do the percentages on the graph add up to? Why is this total not 100 percent?

b. What percentage of rescues used equipment of some kind?

c. Which piece of equipment (apart from the IRB) would you recommend that Jared and Dave concentrate on when training? Explain why.