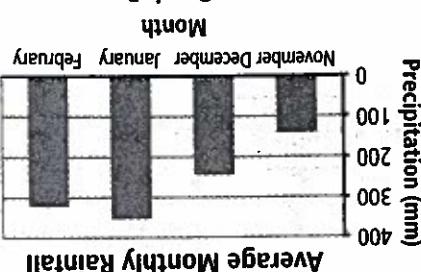
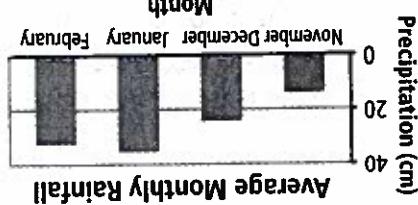


Graph B



Graph A



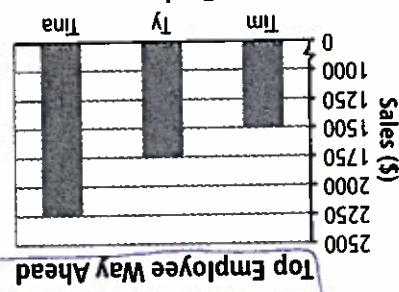
new brochure.

3. A tropical destination wants to increase the number of travellers to its resort. The marketing director is trying to decide which graph about rainfall should be included in the new brochure.

- Remove the break in the graph.  
- The title should Employee Sales  
to make it clearer?
- c) How should the graph be drawn

- a) Explain how this graph could be misleading.
- b) How much more did Tina sell compared to Ty?
- The break is in the graph giving longer bars.  
Tina is way ahead in sales.  
Ty little reads you to believe  
disrupts the graph in sales.

Employees



Top Employee Way Ahead

2. Three employees' sales for one week are shown in the following graph.

### Practise and Apply

- Distorting the information by using Visuals, bars of different sizes.
- Distorting the scale.

- b) Misleading features of graphs may include the following:

conclusions when graphs are misleading.

1. a) People may misinterpret data and draw falses

data false scale visuals

Choose from the following terms to complete #1.

### Key Ideas Review

Mathlinks 8, pages 18-27

## Misrepresenting Data



B: 12

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# 5-19.

Keisha's practicing

Week	1	2	3	4	Practise Time (minutes)
	10	25	30	40	
	15	20	25	35	
	20	25	30	40	
	25	30	35	45	

6. The information below shows Keisha's practice times for band. She wants to make her practice times look better than they are. Draw the graph she might create. Explain how your graph distorts the data.

to 20.  
scale to go from 0  
— change the x-axis  
accurately.

- b) Describe how to redraw the graph to represent the data more accurately.

2cm ✓

16

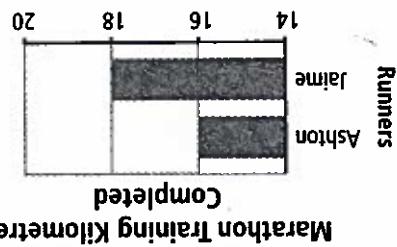
18

20

Jaime completed?

- a) How many more kilometres has

Kilometres



5. Jaime and Ashton are training for the marathon. The graph below

shows how many kilometres they have completed in their training so far.

- a) How are the two graphs different?

- Both footballs should be roughly the same

- Football should be:

- The ball should be:

- Show the data more accurately?

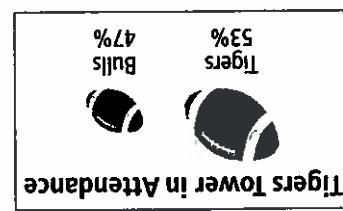
- c) How could you draw a graph to show the data more accurately?

- To be like football you

- like this should be:

- The ball should be:

- b) How is this graph misleading?

26  
- 47%  
53%

4. The fans at a football game were asked which team they were

- supporting. This graph shows the

- results of the survey.

- b) Explain why the graph shows the

- team which would draw tourists.

4. The fans at a football game were

- asked which team they were

- supporting. This graph shows the

- results of the survey.

- c) Which graph do you think the

- director should choose? Explain

- why should choose Graph A

- your answer.

- b) Explain how Graph A could be

- misleading.

- The smaller numbers on the

- Y-axis produce shorter bars

- The smaller numbers on the

- X-axis scale is in cm and mm.

- The Y-axis scale is in

- metres and cm.