

# Task: Monday's Temperatures

Approach: Independent

Focus: Constructing a graph

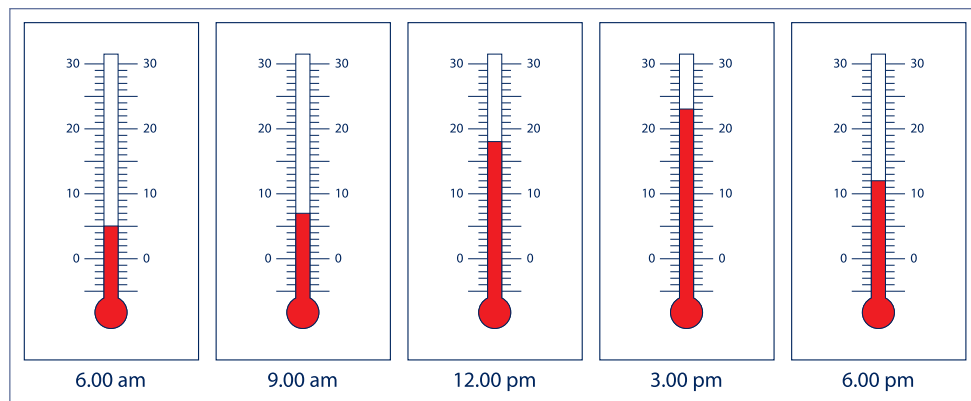
Resources: Ruler, thermometers and blank grid in work book

Year: 8

## Questions / instructions:

The thermometers show the temperature outside at different times of the day.

Make a line graph to show the temperatures. Write labels on your graph.



	% responses		% responses
<b>Appropriate title:</b>		<b>Drawing of graph:</b>	
temperatures outside	y8	6.00am –	5 marked correctly
temperatures	1	9.00am –	7 marked correctly
	8	12:00pm –	18 marked correctly
<b>Appropriate qualification in title:</b>		3.00pm –	23 marked correctly
different times of the day ( <i>Monday</i> )	6	6.00pm –	12 marked correctly
mentioned in title	0		
different times mentioned in title	8	<b>Line drawn:</b>	
	0	(i.e. marks connected up with line)	
<b>Position of title:</b>		yes, tidily between marked points	44
above graph	8	yes, but quite roughly	21
below graph	0		
<b>Bottom axis (time):</b>			
appropriate axis label and all five times	33		
appropriately given ( <i>am/pm not necessary</i> )	2		
appropriate axis label, but not all	51		
5 times appropriately given			
all times given, but no appropriate axis label			
<b>Side axis (temperature):</b>		<b>Total score:</b>	
appropriate axis label and	38	14–18	7
appropriate numbering	4	11–13	23
appropriate axis label, but not		8–10	23
appropriate number labelling	31	5–7	25
appropriate number labelling,		0–4	22
but no appropriate axis label			

## Subgroup Analyses:

Year 8

Score Range

Boys

Girls

Pakeha

Māori

Pasifika

14 - 18

5 %

9 %

8 %

4 %

0 %

11 - 13

25 %

22 %

27 %

9 %

19 %

8 - 10

21 %

25 %

24 %

15 %

25 %

5 - 7

25 %

24 %

24 %

27 %

25 %

0 - 4

24 %

20 %

17 %

45 %

31 %

## Commentary:

As was found with other relatively unstructured tasks, many students failed to provide appropriate labels for their graph and its axes. The data points were more commonly recorded correctly. Almost half of the Māori students had very low scores.