

Approach: Station

Year: 4 & 8

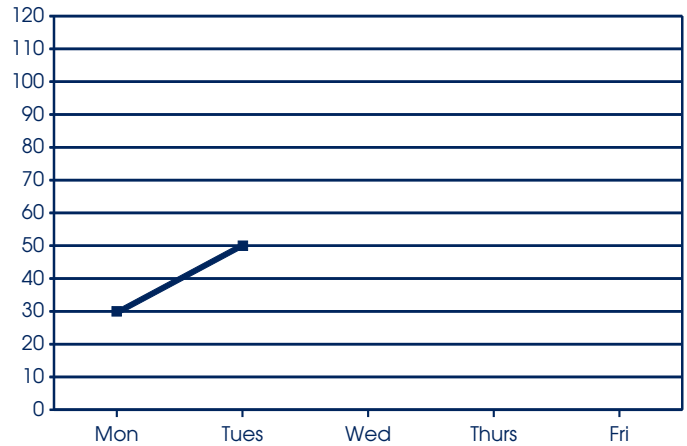
Focus: Completing a line graph

Resources: Ruler, graph in work book

Questions / instructions:

The teacher said if the class could earn more than 100 points in the week then they could have a treat. Here are the points they collected each day.

Day	Points
Monday	30
Tuesday	20
Wednesday	30
Thursday	10
Friday	20

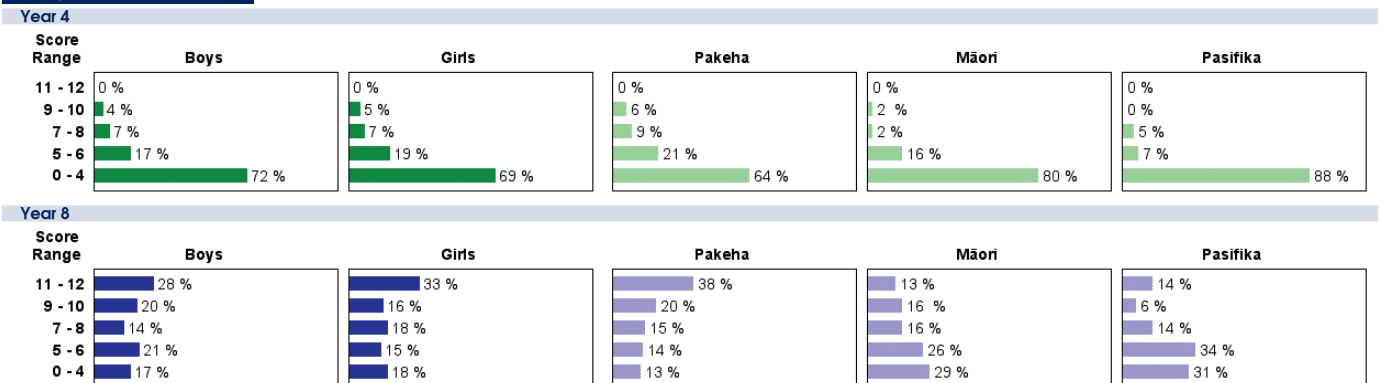


Finish the line graph and make sure graph has:

- a title
- the line drawn
- labels on the side and bottom axes.

	% response 2007 ('03)		% response 2007 ('03)			
	year 4	year 8	year 4	year 8		
Mentioned in title: (class) points earned (or similar) in a week	44 (50)	77 (86)	Line on graph: Wednesday – marked at 80 Thursday – marked at 90, or up 10 from Wednesday Friday – marked at 110, or up 20 from Thursday	26 (25)	61 (69)	
	2 (1)	8 (10)		23 (23)	62 (70)	
	2 (2)	11 (12)		23 (21)	61 (69)	
Position of title: above graph below graph	47 (53)	73 (86)	Line drawn: (marks/dots connected up with line) with all points correct not all points correct	11 (18)	56 (64)	
	4 (8)	5 (5)		41 (40)	32 (30)	
Appropriate side axis label: (e.g. class points, points, points earned)	14 (11)	50 (67)	Total score:	0 (0)	31 (11)	
Appropriate bottom axis label: (days, week days)	15 (14)	50 (68)		11–12	5 (5)	18 (40)
				9–10	7 (8)	16 (18)
				7–8	18 (16)	18 (16)
				5–6	71 (71)	18 (15)
			0–4			

Subgroup Analyses:



Commentary:

Year 8 students performed moderately well on this task, but year 4 students had great difficulty with it. Only about one in ten year 4 students could complete the line of the graph successfully, where slightly over half of the year 8 students were able to do so. Year 4 students performed very similarly in 2003 and 2007, but there were more very high performing year 8 students in 2007 than in 2003. At year 8 level especially, Pakeha students performed better than Māori and Pasifika students.