

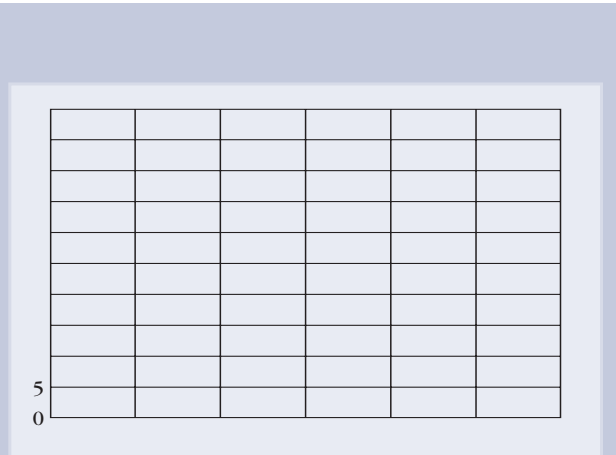
Down at the Sea

Approach: Station

Level: Year 4 and year 8

Focus: Using tally marks and creating a bar graph.

Resources: Picture of people gathering kai moana (sea food).



Questions/instructions:

On Saturday some children went down to the sea to gather sea food. When they had finished they counted the sea food.

SEAFOOD	TALLY
28 sea eggs (kina)	### ### ### ### ### ///
40 mussels	### ### ### ### ### ### ### ##
6 crayfish	### /
5 crabs	###
20 paua	### ### ### ###
2 octopus	//

% responses
y4 y8

1. Tally marks have been made for sea eggs and for mussels. Make the tally marks for the other sea foods.

2. Show the information on a bar graph.

	% responses	
	y4	y8
correct bar height: sea eggs	35	73
mussels	49	88
crayfish	38	80
crabs	47	88
paua	47	88
octopus	37	78

3. Write a name for your graph in the best place.

suitable title given	21	53
title above graph	56	78

4. Write a label on the vertical side or left side of the graph.

Y axis: title & value labels	14	54
value labels only	49	40

5. Write a label on the horizontal line or bottom of the graph.

X axis: appropriate title	19	64
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Commentary:

Both year 4 and year 8 students used tally marks well, but were much less successful in providing labels for their graph and its areas. On average, about 35 percent more year 8 than year 4 students were successful with the required components of the bar graph.

Exemplars: Year 4: colour pencils or labelled; year 8: black pencils.

