

Final Rubric – Entangled Whales

Solution

- a. The number of Right and Humpback whales entangled in fishing nets increased in Year 2. The number of Minke and Other whales decreased from Year 1 to Year 2.
- b. The side-by-side bars on the bar graph indicate that 6 more Humpback and 6 more Right whales were entangled in Year 2, when compared to the numbers for Year 1. However, the number of Right whales entangled more than doubled ($11/5$ is over 2), whereas the number of Humpback whales less than doubled ($22/16$ is less than 2). The increase for right whales is 120% whereas for humpbacks is only 37.5%. This is the primary reason for the concern expressed by the environmentalist.

Scoring

Each part is scored as Essentially Correct (E), Partially Correct (P), or Incorrect (I)

- a. An essentially correct (E) response will include correct comparisons for all four types of whales, in context.

A partially correct response (P) will include correct comparisons for at least two types of whales or a specific comparison of the totals across all categories from year 1 and year 2.

- b. An essentially correct (E) response will include a proportional argument.
Note: If the percentage increase expressed seems reasonable based upon eyeballing the graph, this is scored as essentially correct.

A partially correct response (P) will include comparisons and statements based solely on the counts provided in the table or a proportional argument with incorrect or unreasonable calculations.

The overall score is based on the performance for both parts.

4 Complete Response

Both parts essentially correct

3 Substantial Response

One part essentially correct and one part partially correct

2 Developing Response

One part essentially correct and one part incorrect

OR

Two parts partially correct

1 Minimal Response

One part partially correct and one part incorrect