



**Subject/course:** \_Math\_\_\_\_\_ **Grade level(s):** \_7\_\_\_\_\_ **Unit title:** Statistics and tragedy of the commons: Humpback Whale Activity Sheet

### Humpback Whale Activity Sheet

Below is a chart showing data collected from whale monitoring in Glacier Bay and Icy Strait in Alaska. The data represents the number of whales seen in these areas.

1) Use this data to create a double line graph on a separate piece of graph paper. Make sure your graph has a title, axes labels, an appropriate scale, and a key. Please make sure your data has been graphed correctly.

Year	Glacier Bay	Icy Strait
1985	18	31
1990	23	36
1995	25	42
2000	59	58
2005	110	86

2) Using this data, find the percent of change between 1985-1990, 1990-1995, 1995-2000, and 2000-2005, and finally 1985-2005. Determine if it was a percent increase or decrease.

Remember, the formula for percent of change is:

$$\text{percent of change} = \frac{\text{amount of change}}{\text{original amount}}$$

Please put your answer in **percent form**, do not leave it as a decimal!

\*Data collected from [www.nps.gov](http://www.nps.gov)