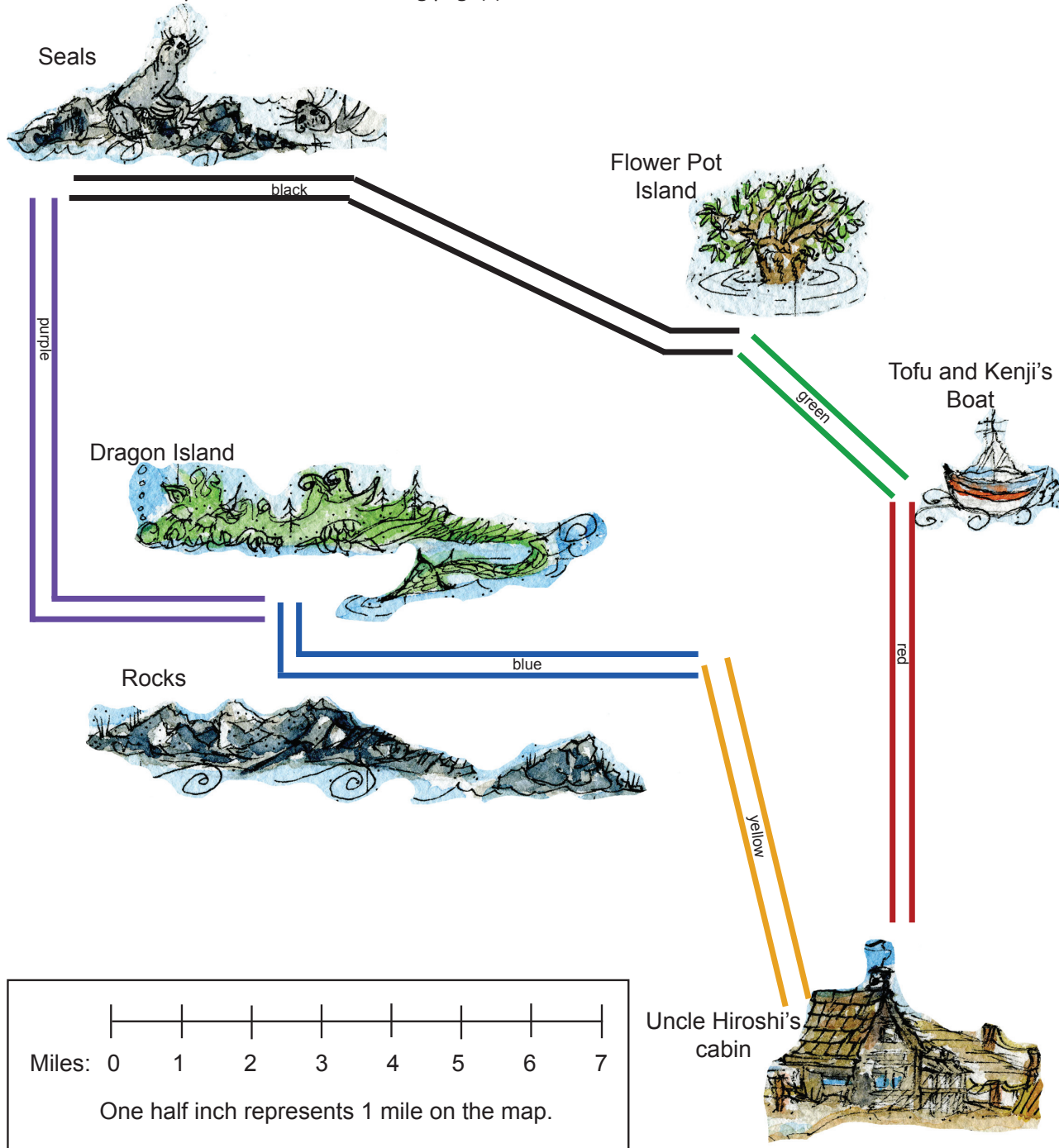


Calculating Distance Using a Map

Name: _____

Tofu and Kenji sailed on their boat to the different islands and landmarks. Using the map below, calculate the distance they traveled. Remember to use the scale for the actual distance. Write the distances on each line segment. As an example, from Flower Pot Island to the seals there are three line segments. Specific line segment groups are color coded. Color the line segments with the names of the colors written inside the lines. Then, answer the questions on the following page(s).



Calculating Distance Using a Map

Name: _____

Tofu and Kenji sailed on their boat to the different islands and landmarks. Using the map on the previous page answer the following questions.



Calculate the total distance from the following places on the map:

1. Estimate the longest segment on the map: _____
2. Uncle Hiroshi's cabin to where Tofu and Kenji's boat went adrift (red line): _____
3. Tofu and Kenji's boat to Flower Pot Island (green line): _____
4. Flower Pot Island to the Seals (black lines): _____ + _____ + _____ = _____
5. Seals to Dragon Island (purple lines): _____ + _____ = _____
6. Dragon Island to rocks (blue lines): _____ + _____ = _____
7. Rocks to Uncle Hiroshi's cabin (yellow line): _____
8. Calculate the total distance traveled from Uncle Hiroshi's cabin and back. _____
9. If on the map the scale changed to one inch represents one mile, calculate the new total number of miles traveled by Tofu and Kenji. _____
10. Calculate the number of miles traveled from the Seals to Dragon Island round-trip. _____
11. Calculate the number of miles traveled on three round-trips from the Seals to Dragon Island.

12. Draw another landmark on the map. Draw a line to one of the landmarks already on the map. Use the map's scale of one half inch represents one mile and calculate the distance traveled. _____
13. If a road or route had curvy lines, it would be difficult to calculate the distance using a straight ruler. Think of another way that you could measure the distance and write it below. _____

14-20. Bonus: Investigate how long it would take to sail a boat with a steady wind the total distance that Tofu and Kenji traveled. You need to consider how many nautical miles an hour a sailboat can travel. There are many factors to consider, but just consider a steady wind and the sails are up on the boat.
