

Think-Pair-Share

1. Examine the map at 120° W. What do you see at the different latitudes?

2. Circle the area on the map at 120° W with the most tropical cyclones.

3. Put a box around the areas on the map at 120° W between the equator and 40° N with the lowest number of tropical cyclones.

4. Describe the patterns you see.

Question Set 1

1. What does the box plot show?

2. What is unique about this box plot?

3. What is the overall distribution of the box plot?

4. What does the shape of the distribution tell you?

5. What does it NOT show?



6. What are the:

- a. Maximum _____
- b. Minimum _____
- c. Range _____
- d. Median _____
- e. First quartile _____

- f. Third quartile _____
- g. Inter-quartile range _____

Question Set 2

How does the box plot relate to the map image?

1. How do the map and box plot show the total number of tropical cyclones in the region?

2. The number of tropical cyclones at each latitude can be found on _____.

3. The quartile in which a given number of tropical cyclones falls can be seen on the _____.

4. The pattern in the map shows

while the pattern in the box plot shows

5. What kind of questions can you answer with a box plot?

6. What do you wonder from the box plot? Can you answer it with this graph, or do you need to see the data in a different way?

7. Does the box plot help you answer the driving question “Which data display is most useful for determining the risk of a tropical cyclone in a given area and preparing an effective emergency plan?”



