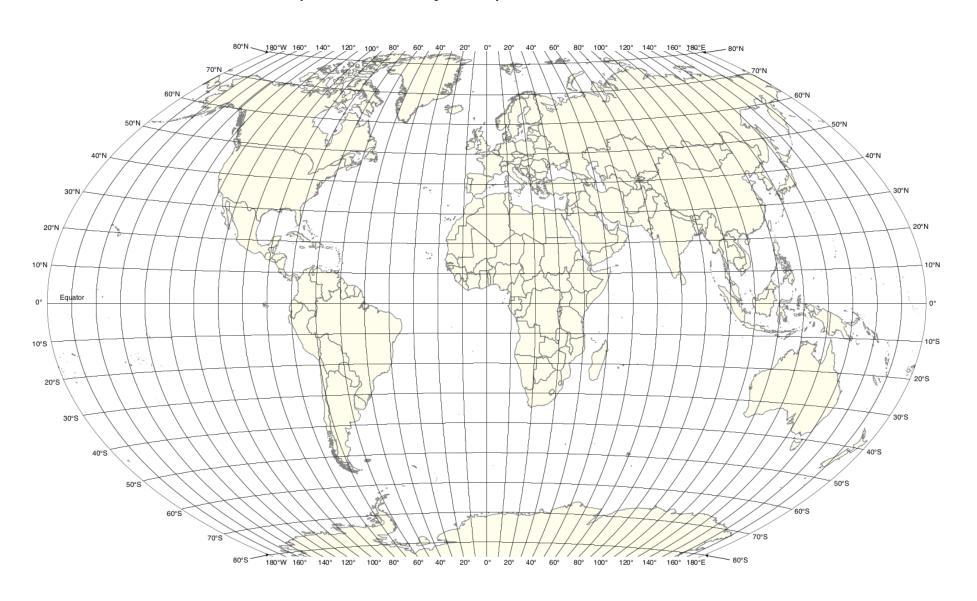
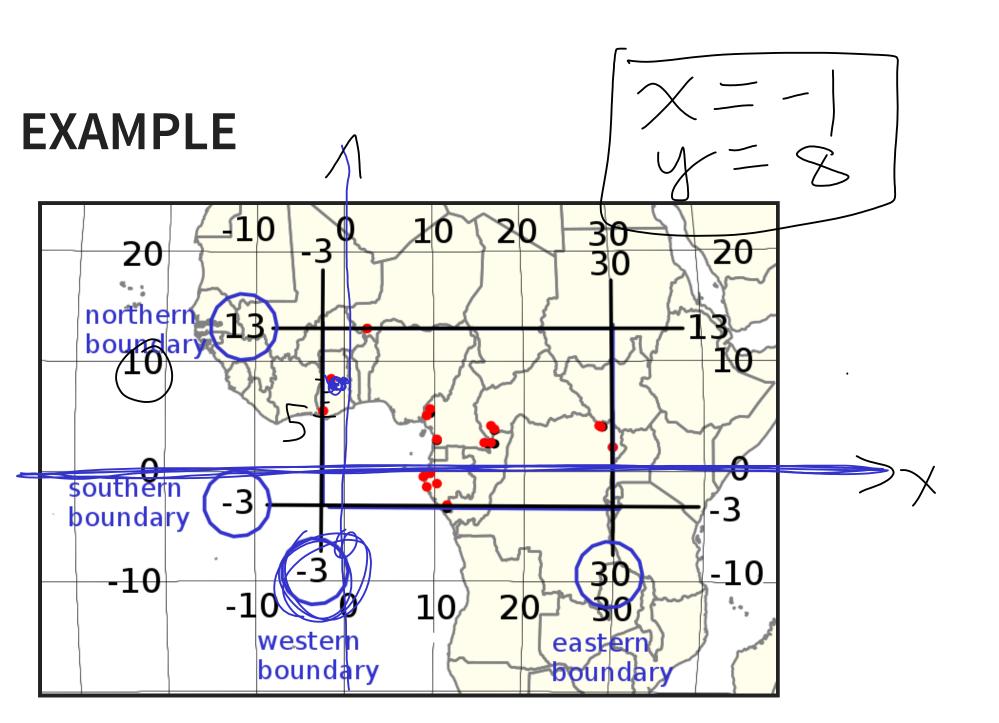
WHERE DOES IT LIVE? CHECKING MY WORK

LEARNING GOAL

- 1. I can test my model by checking whether a point is a solution to my inequalities.
- 2. I can revise my model if it does not work.

Plot the points where your species has been seen here.





TASK 1: CHOOSE A TEST POINT

Choose a point on your map, where your species lives. This will be your **test point** that you will use to check your model.

Identify the coordinates of your **test point**. Write the x and y coordinates below.

COORDINATES OF TEST POINT

$$x = -1$$
 $y = \%$

TASK 1: CHOOSE A TEST POINT

Choose a point on your map, where your species lives. This will be your **test point** that you will use to check your model.

Identify the coordinates of your **test point**. Write the x and y coordinates below.

COORDINATES OF TEST POINT

$$x =$$

$$y =$$

Copy your answers from Where Does it Live, Part 2, Task 3 here.

SENTENCES

- 1. The range of my species is *south* of $\frac{1}{3}$ \circ $\frac{1}{3}$.
- 2. The range of my species is *north* of \bigcirc \bigcirc \bigcirc
- 3. The range of my species is *west* of \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc .
- 4. The range of my species is *east* of \bigcirc \bigcirc \bigcirc

INEQUALITIES

- 1. Inequality for northern boundary:
- 2. Inequality for southern boundary:
- 3. Inequality for eastern boundary:
- 4. Inequality for western boundary:

Check each of your inequalities by plugging in the x or y coordinate of your **test point**. If your inequality is **false** circle it.

INEQUALITIES

- 1. Inequality for northern boundary:
- 2. Inequality for southern boundary: $\sqrt{}$
- 3. Inequality for eastern boundary: ∠∠ろD
- 4. Inequality for western boundary: $\times > 3$

Check each of your inequalities by plugging in the x or y coordinate of your **test point**. If your inequality is **false** circle it.

INEQUALITIES

- 1. Inequality for northern boundary:
- 2. Inequality for southern boundary:
- 3. Inequality for eastern boundary:
- 4. Inequality for western boundary:

Copy your answers from Where Does it Live, Part 3, Task 3 here:

SENTENCES FROM TASK 2

- 2. The **center** of the longitudes is _____, and the distance from the center to the eastern boundary is _____°.

ABSOLUTE VALUE INEQUALITIES

1. Inequality for latitudes:

2. Inequality for longitudes:

$$|\times -5| \leq 8$$

Check each of your absolute value inequalities by plugging in the x or y coordinate of your **test point**. If your inequality is **false** circle it.

ABSOLUTE VALUE INEQUALITIES

1. Inequality for latitudes:

2. Inequality for longitudes:

$$|x-5| < 8$$
 $|-1-5| < 8$
 $|-6| < 8$

Check each of your absolute value inequalities by plugging in the x or y coordinate of your **test point**. If your inequality is **false** circle it.

ABSOLUTE VALUE INEQUALITIES

- 1. Inequality for latitudes:
- 2. Inequality for longitudes:

TASK 4: REVISE YOUR WORK

- 1. Go back through your work, and find any inequalities your circled.
- 2. Go back through your steps, and use your test point to check for any mistakes.
- 3. Once you find your mistake, correct it and write a correct inequality.