Name: \_\_\_\_\_

The chart to the right shows data Juan collected about butterfly wingspans.

- a. At the bottom of this page, create a line plot to display the data in the table.
- b. What is the difference in wingspan between the widest and narrowest butterflies on the chart?

c. Three butterflies have the same wingspan.Explain how you know the measurements are equal.

Butterfly	Wingspan (inches)	
Monarch	$3\frac{7}{8}$	
Milbert's Tortoiseshell	$2\frac{5}{8}$	
Zebra Swallowtail	$2\frac{1}{2}$	
Viceroy	$2\frac{6}{8}$	
Postman	$3\frac{3}{8}$	
Purple Spotted Swallowtail	$2\frac{2}{8}$	
Julia	$3\frac{2}{4}$	
Southern Dogface	$2\frac{3}{8}$	
Tiger Swallowtail	$3\frac{1}{2}$	
Regal Fritillary	$3\frac{4}{8}$	

Adapted from Common Core/engage NY curriculum Module 5: Fraction Equivalence, Ordering, and Operations

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Solve each problem. Draw a model, write an equation, and write a statement for each.

d. Juan wants to display a Postman and Viceroy side-by-side in a photo box with width of 6 inches. Will these two butterflies fit? Explain how you know.

e. Compare the wingspan of the Milbert's Tortoiseshell and the Zebra Swallowtail using >, <, or =.

f. The Queen Alexandra Birdwing can have a wingspan that is 5 times as wide as the Southern Dogface's. How many inches can the Birdwing's wingspan be?

g. Juan discovered a pattern. She started with  $2\frac{2}{8}$  inches and added  $\frac{1}{8}$  inch to each measurement. List the next four measurements in her pattern. Name the five butterflies whose wingspans match the measurements in her pattern.