



Dear Fourth Grade Families,

In Unit 8, students will work on the following fourth grade Common Core standards in the Measurement and Data (MD) domain:

4.MD.3	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.
4.MD.4	Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{8}$ ). Solve problems involving addition and subtraction of fractions by using information presented in line plots.

### Unit 8 Concepts:

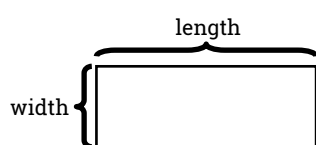
- Use area and perimeter formulas to find area and perimeter
- Use area and perimeter formulas to find the length of a side
- Make line plots to display measurement data
- Add and subtract fractions to answer interpret data on a line plot

Ask questions like these to help your child become a productive mathematical thinker:

- If you know the length of one side and the total area, how can you find the length of the missing side? Does it work with perimeter too?
- I want to buy a new rug for the dining room, but I want to make sure the one I get isn't too big. Can you find the area of the floor for me?
- What kind of data do you display in a line plot?
- What are some conclusions you can draw from the data in your line plot?
- How do you know your answers are reasonable?

### Unit 8 Vocabulary:

- Line plot
- Rectangle
- Area
- Perimeter
- Length
- Width



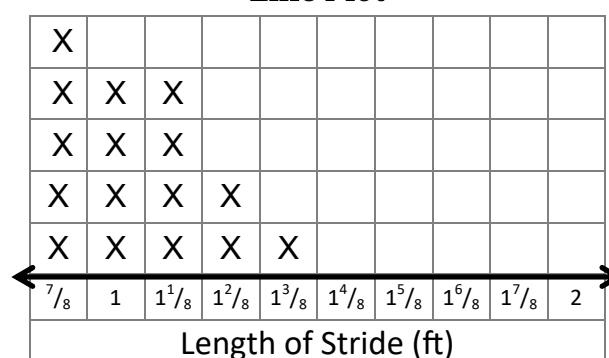
$$\text{Area} = l \times w$$

$$\text{Perimeter} = 2l + 2w$$

### Need a review?

Have your student login to Swun Math to access lesson support videos.

### Line Plot



Phan measured the length of her stride sixteen times. This line plot represents her data.

We encourage you to talk with your child daily about what was learned in math class.

Thank you for your support!