

Dear Parents,

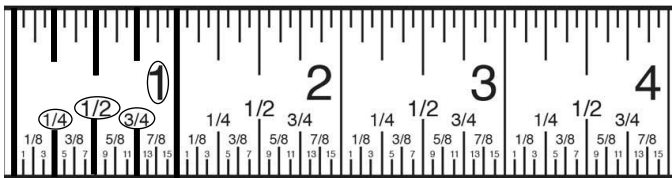
Over the few several weeks, we will be learning about **measuring lengths in inches and centimeters** and **area and perimeter** in math! The information below will help you to support your child as they learn these exciting, yet important third grade math skills.

The GOAL:

By the end of the unit, your child should be able to **measure the lengths of objects using inches and centimeters**. Children should also be able to **find the area and perimeter of given shapes**.

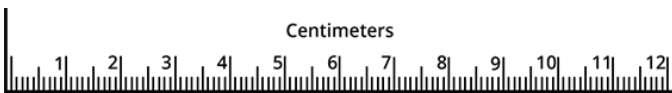
Measurement

Children must measure lengths to the nearest **quarter inch**. Each inch is split into **4-quarter inch sections**. See the bold marks on the ruler below to see the quarter inch sections.

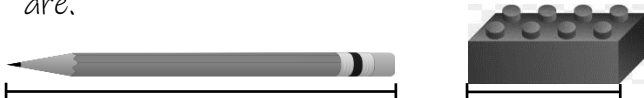


The ovals on the ruler above are there to show you where each $\frac{1}{4}$ section can be found within the first inch of this ruler. **Can you find the rest of the $\frac{1}{4}$ sections in inches 2, 3, & 4?**

Children must also measure lengths to the nearest **centimeter**. The numbers on the below ruler show where each centimeter is located.

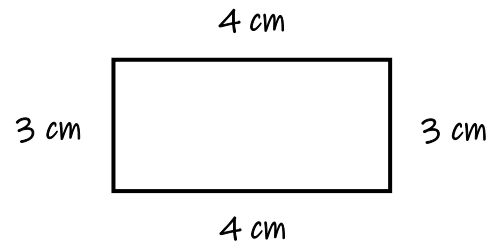


Measure the objects below using the ruler on the back page to see how long the objects are.



Area and Perimeter

Perimeter is the distance around the outside of a shape. In the below rectangle, the perimeter is 16 centimeters.

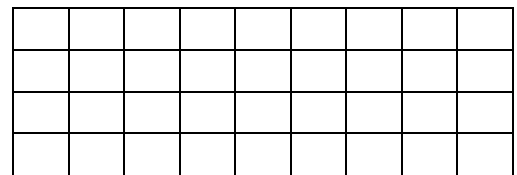


$$4 + 3 + 4 + 3 = 16 \text{ cm}$$

Area is the amount of space inside a shape or figure. You can use a formula to find the area of a shape. The formula to find the area of the below shape is:

$$\text{length (l)} \times \text{width (w)}$$

$$(A = l \times w)$$



(each square represents one square unit)

The area of this rectangle is:
 $9 \times 4 = 36$ square units.

Central Dauphin School District
Grade 3 Math: Unit 5 Parent Letter
Measurement & Area/Perimeter



Grade 3 Math: PA Core Math Standards in Unit 5

CC.2.4.3.A.1: Solve problems involving measurement and estimation of temperature, liquid volume, mass or length.

CC.2.4.3.A.5: Determine the area of a rectangle and apply the concept of multiplication and to addition.

CC.2.4.3.A.6: Solve problems involving perimeters of polygons and distinguish between linear and area measures.

-- HOW YOU CAN HELP AT HOME --

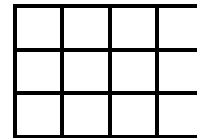
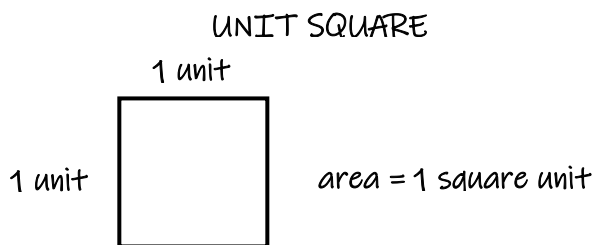
- Use a ruler at home (or cut the one out on the bottom of this page) and find the length of different objects around your house
- Measure different objects in inches and in centimeters
- Use a ruler or a tape measure to find the perimeter of a picture frame, book, bedroom, fence, etc.
- Find the area of a garden, the floor of a room, a fenced in yard using an appropriate tool

-- KEY MATH VOCABULARY --

Area: The measure, in square units, of the inside part of a shape or figure.

Perimeter: The distance around a closed 2-dimensional figure or shape.

Unit Square: A square with each side 1 unit in length. The area of a **unit** square is 1 square unit.



In this picture, each small square represents 1 square unit. The area of this rectangle is 12 square units.

Cut this ruler out and measure the pencil and lego on the front of this letter!
Use this ruler to measure other things around your house!! Ask an adult for help!
(This ruler may not be to scale based on how the image is printed.)

