Chapter 14: Relate multiplication and Area

Dear Family,
During the next few weeks, our math class will be learning about area of figures.
You can expect to see homework that provides practice with finding area by counting squares, using addition, or using multiplication.

The area of a rectangle is equal to its length times its width.
Area = length x width

Vocabulary

Area: The measure of the number of unit squares needed to cover a surface.

Square inch: A square inch is the area of a unit square.

Square unit: A unit used to measure area, such as square foot, square meter, and so on.

Unit square: A square with a side length of 1 unit, used to measure area.

- Homework due date: **Sunday, Feb. 23rd**
- Quiz: **Friday, Feb. 21st** (Homework is practice for the quiz)
- Feel free to contact me with any questions at **diana.charaf@archimedean.org**

Complete homework daily based on the schedule provided below:

Monday 02/17	**No HW**
Tuesday 02/18	**S7G - V73** on IXL
Wednesday 02/19	**8KJ - 5HA** on IXL
Thursday 02/20	**DVB** on IXL
Friday 02/21	**SGP** on IXL

Area of compound shapes

A **compound shape** is made up of basic shapes put together. You may also hear it called a "composite" or "complex" shape.

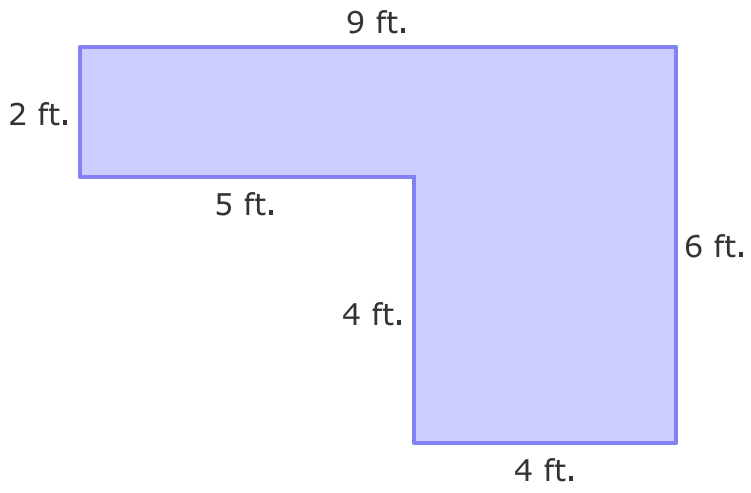
How can you find the area of a compound shape? Break it up into pieces!

To find the area of a compound shape, follow these steps:

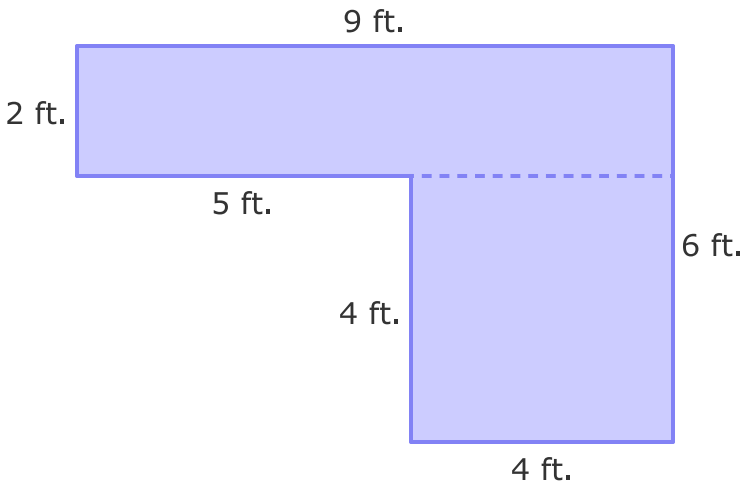
1. Break the compound shape into basic shapes.
2. Find the area of each basic shape.
3. Add the areas.

Compound shapes made of rectangles

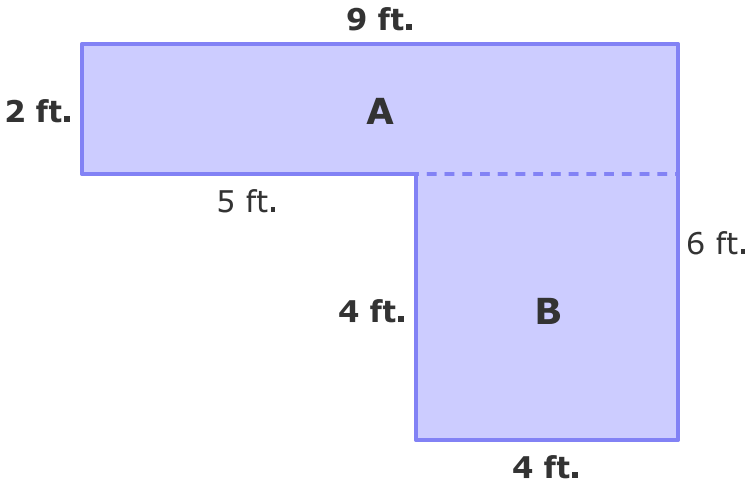
This compound shape is made of two rectangles. Let's follow the steps to find its area!



First, draw a line to break the compound shape into basic shapes. There is more than one way to do this! Here is one way.



Then, find the area of each rectangle by multiplying **length × width**.



Rectangle A:

$2 \times 9 = 18$

The area of rectangle A is **18 square feet**.

Rectangle B:

$4 \times 4 = 16$

The area of rectangle B is **16 square feet**.

Now, add the areas of the basic shapes.

$18 + 16 = 34$

So, the area of the compound shape is **34 square feet**!