

Measurements of Composite Figures

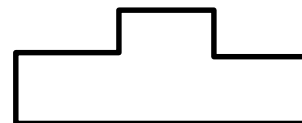
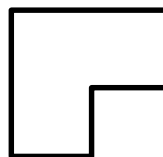
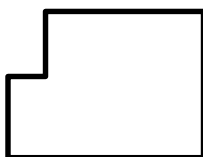
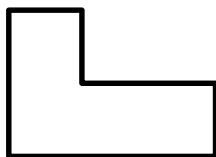
Not everything in life is a perfect quadrilateral. In fact, many homes have kitchens, living rooms, and even hallways that are constructed in shapes that are not squares or rectangles. Does that mean you have to determine the area or perimeter one foot at a time? Nope! If you understand composite figures, you can use what you have already learned to make calculations instead.

Vocabulary

Composite Figure	A shape made of two combined quadrilaterals. Can be decomposed.
Decompose	To break something into pieces.
Area	The measurement of the inside space of a figure.
Perimeter	The measurement of all outside edges of a figure.

What Are Composite Figures?

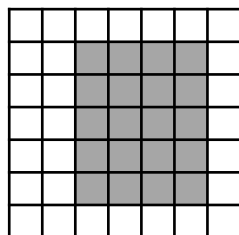
Most composite figures that you will encounter in third grade will look like the following.



Can you split them into TWO quadrilaterals?

How Does Decomposing Help Us Calculate Area?

The area formula helps us find the area of a quadrilateral. How many sides does a quadrilateral have?

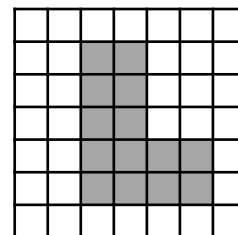


The length of this shape is ____.
The width of the shape is ____.

The area is _____.

The length of this shape is ____.
The width of the shape is ____.

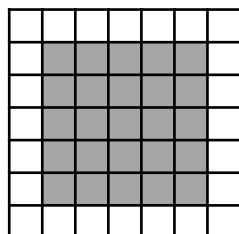
The area is _____.



Did the standard formula work for this?

Does Decomposing Help Calculate Perimeter?

If perimeter is the measurement of the outside of a figure, do you need to break a composite shape into pieces? Let's see.

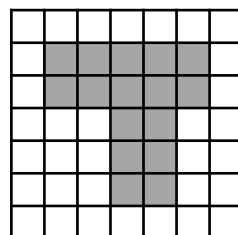


The measurements of the edges of this figure are:

The perimeter is _____.

The measurements of the edges of this figure are:

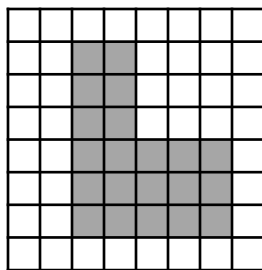
The perimeter is _____.



Do we need to decompose? What is the only difference?

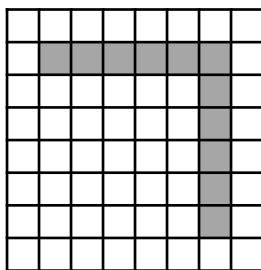
Measurements of Composite Figures Practice

Practice determining the area and perimeter of composite figures with a grid.



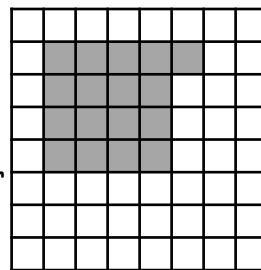
Area

Perimeter



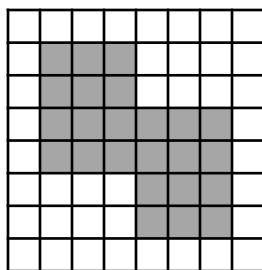
Area

Perimeter



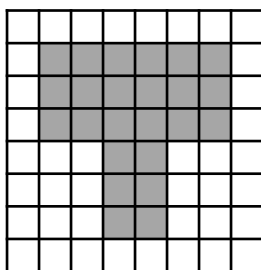
Area

Perimeter



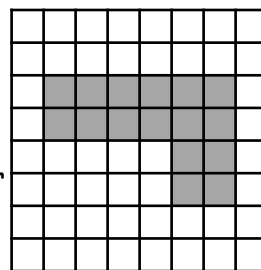
Area

Perimeter



Area

Perimeter



Area

Perimeter

Practice calculating the area and perimeter of composite figures by decomposing them.

