Name:_____   Block:_____

Are they the same? – Area

Draw a picture of a rectangle with a base of 8 units and a height of 4 units.

What is the area of the rectangle?

_____ units squared

Create a right triangle with a base of 3 units on the side of the rectangle.

Is the right triangle inside or outside of the original rectangle?

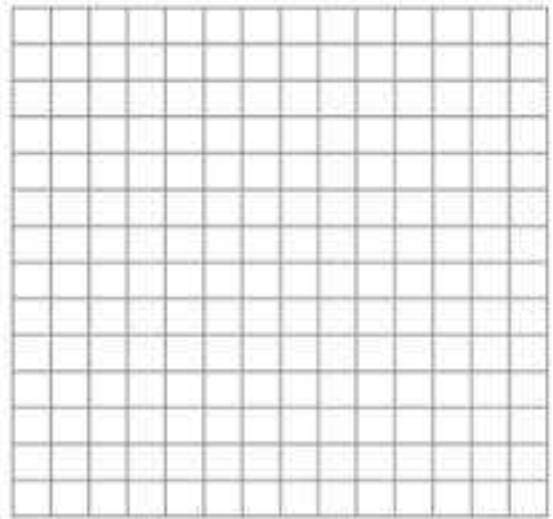Shade in the right triangle that you have just created.

If the right triangle that you created is inside the rectangle, draw a congruent triangle on the outside of the opposite side of the rectangle.

If the right triangle that you created is outside the rectangle, draw a congruent triangle on the inside of the opposite side of the rectangle.

What is the name of the shape that we just created? _____

What is the area of that new shape?   _____ units squared

Explain how you calculated the area of the new shape and create a formula to find the area of the new shape.

Draw a picture of a rectangle with a base of 7 units and a height of 3 units.

What is the area of the rectangle?

_____ units squared

Create a right triangle with a base of
5 units on the side of the rectangle.

Is the right triangle inside or outside of
the original rectangle?

Shade in the right triangle that you have
just created.

If the right triangle that you created is inside the rectangle, draw a congruent
triangle on the outside of the opposite side of the rectangle.

If the right triangle that you created is outside the rectangle, draw a congruent
triangle on the inside of the opposite side of the rectangle.

What is the area of the parallelogram?   _____ units squared

Explain how the area of a rectangle is related to the area of a parallelogram
using academic vocabulary.