Name _____ Date _____ Class _____

SECTION 10A

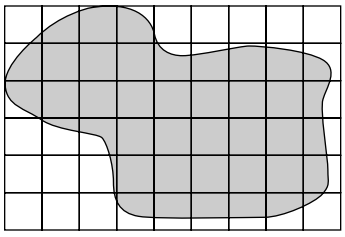
Ready to Go On? Skills Intervention

10-6 Area of Irregular and Composite Figures

You can estimate the area of an irregular figure by using graph paper. To find the area of an irregular figure, divide it into shapes whose areas are easier to find and then find the sum of the areas of those shapes.

Estimating the Area of an Irregular Figure

Estimate the area of the lake. Each square = 1 m^2.



How many squares are fully covered by the shape? ____

How many squares are half-covered by the shape? ____

Find the sum: ____ + $\frac{1}{2}$(____) = _____.

The area of the lake is about _____ m^2.

Finding the Area of a Composite Figure

Find the area of the figure.

Draw a line to create a rectangle. What other figure have you created?

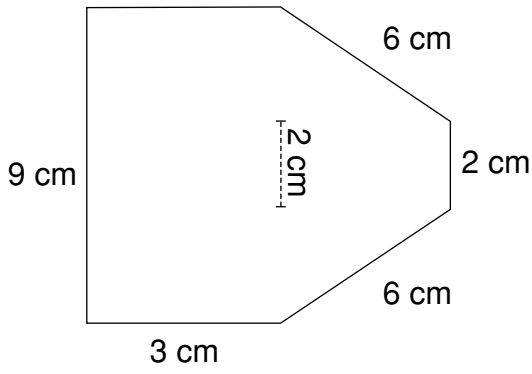
_____

What is the formula for the area of a rectangle?

_____

What is the formula for the area of a trapezoid?

_____



Assume that the 2 cm side of the trapezoid is directly centered opposite the 9cm side of the figure.

What is the length of the sections on either side? _____

How can you use that to find the height of the trapezoid?

_____

Substitute and solve. $\_\_^2 + h^2 = \_\_^2$; _____ + h^2 = ____; h^2 = _____; h = _____

Area of Rectangle

A = (____)(____)

A = ____

Area of Trapezoid

$A = \frac{1}{2}$ _____(____ + ____)

A = _____

Sum of Areas

____ + _____ = _____