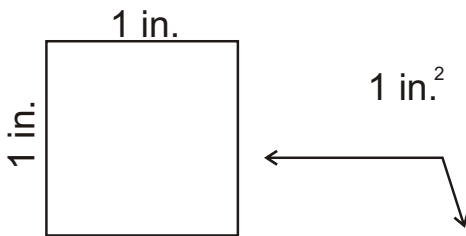


AREA

What is "AREA"?

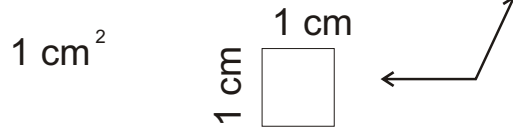
Area is the amount of square units it takes to completely cover a given space.

A square unit may be many different things, such as a square inch, square foot, square centimeter, or a square yard. When discussing or calculating area, what type of square unit you are using will depend on what type of unit you are measuring with.

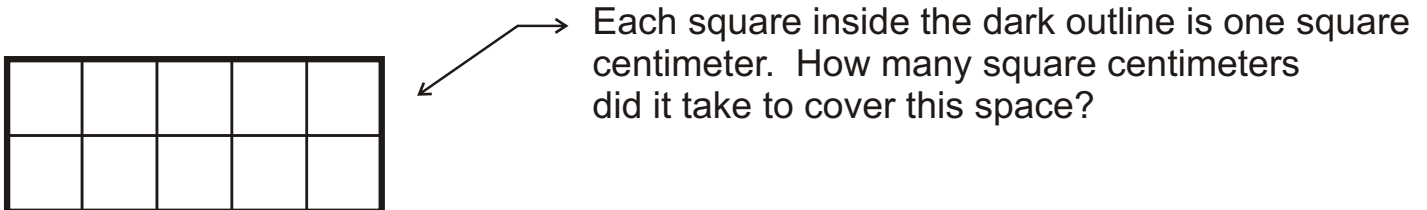


This square is one square inch!

This square is one square centimeter!



When you are describing area, you always place a 2 for the exponent after your units. Using 2 for an exponent is another way to say "squared"! The answer 10 in.² can also be read as 10 inches squared.



Each square inside the dark outline is one square centimeter. How many square centimeters did it take to cover this space?

There are many different formulas to find the area. The formula will depend on what type of object you want to find the area for. Here are a list of objects and their formulas.

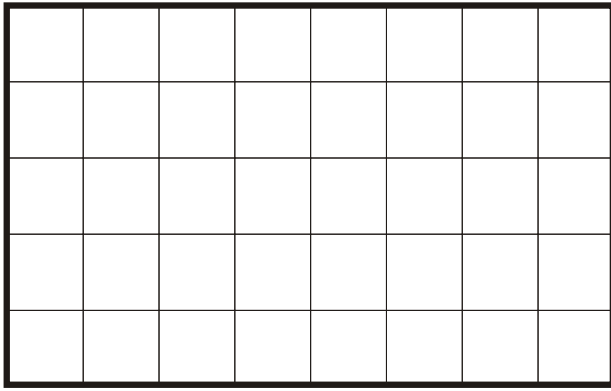
Square or rectangle ---- Area = length x width or $A = lw$

Triangle ----- Area = $\frac{1}{2}$ x base x height or $A = \frac{1}{2}bh$

Circle ----- Area = π x radius² or $A = \pi r^2$

Name _____

Date _____ H.R. _____



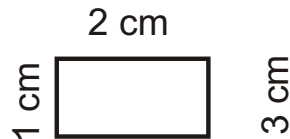
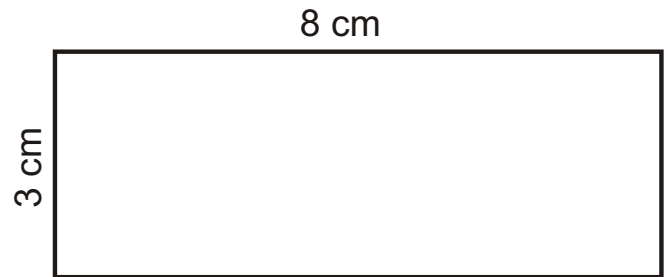
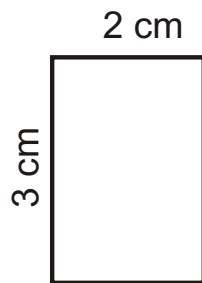
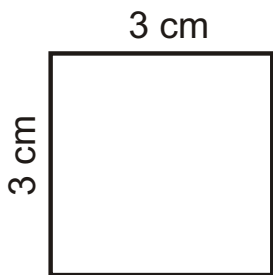
1) The units used here are centimeters. How many square centimeters are inside the dark outlines? _____

2) What formula can be used to find the area of this object so that you would not have to count each square?



3) Estimate how many square units you can fit inside the rectangle to the left.

Write the area for each rectangle in the center of each rectangle. Label your units correctly!



3 cm

