Study the following.

area (definition 1) (**air**-ee-uh) – a measure of how much space is on the inside of a figure. It is a measure of two-dimensional space. (The area of the rectangular table top is a measure of the space of the table top.)

unit square (**yoo**-nit **skwair**) – a square that has all sides one unit long . One unit means one inch, one cm, one foot, etc. (I drew a unit square that was one inch on each side.)

area (definition 2) – the number of unit squares that fit into the space on the inside of a figure. (The number of unit squares that fit on the table top was 12, so the area was 12.)

inches^2 - the small 2 is called the exponent and means "squared".

square (**skwair**) – the word square refers to the figure called a square. It also refers to the exponent of a 2 for the units for area. (The area was 4 feet $^{2(\text{squared})}$ so four unit **squares** fit in the space.)

A – a capital A stands for area.

Say each word out loud and write it in the blank.

area_____
unit_____
square_____

Write each definition in your own words.

area (definition 1)

unit square

area (definition 2)

square

Write two sentences using each word.

area (definition 1)
1.

2.

area (definition 2)
1.

2.

unit square
1.

2.

square
1.

2.

Matching.

area	a measure of how much space is on the inside of a figure
unit square	the number of unit squares that fit into the space on the inside of a figure
area	a square that has all sides one unit long
^{2}	the exponent and means "squared".
square	area
A	refers to the figure .It also refers to the exponent of a ^{2}.

Study the following.

One way to find the area of a shape is to count the squares that fit into it.

Example: What is the area if each square is 1 inch on each side?
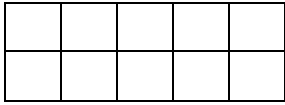
There are 10 squares so the area $A = 10$ inches^2.

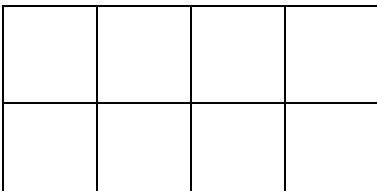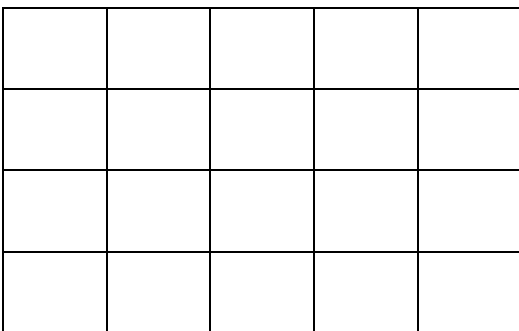**Find the area if each square is one centimeter on each side.**
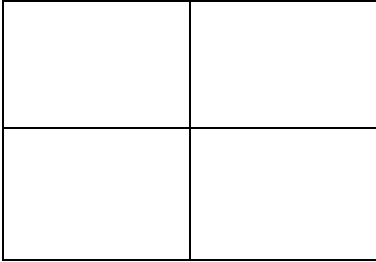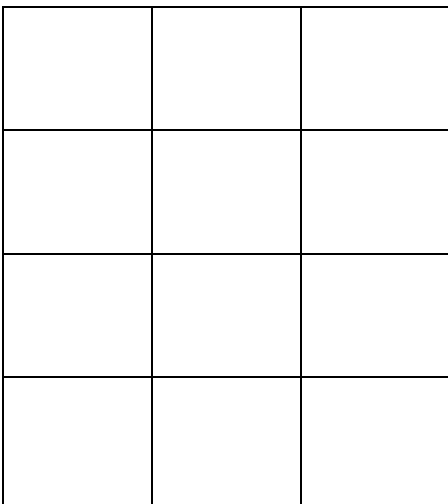
1. A = _____
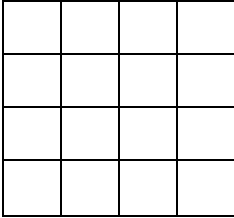
2. A = _____
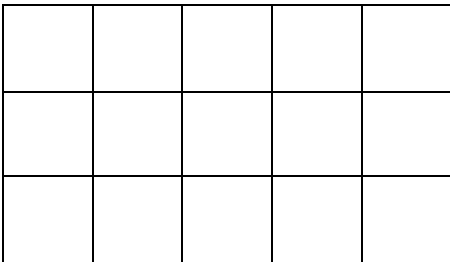
3. A = _____

4. A = _____

5. A = _____

6. A = _____

Fill in the blanks.

If the units for area are inches^2, then the unit square is _____ on each side.

If the units for area are feet^2, then the unit square is _____ on each side.

If the units for area are meters^2, then the unit square is _____ on each side.

If the units for area are centimeters^2, then the unit square is _____ on each side.

Study the following.

The units for area can be written three ways.

units^2 can also be written **square units**, or **units squared**.

Example: **inches^2** can be written **square inches** or **inches squared**.

Find the area and write the units three different ways.

1. A = _____
    A = _____
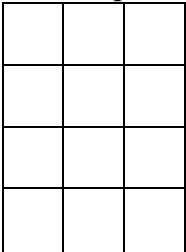   A = _____

One square is 1 foot on a side.

2. A = _____
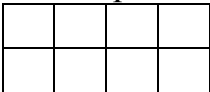   A = _____
    A = _____

One square is one meter on a side.
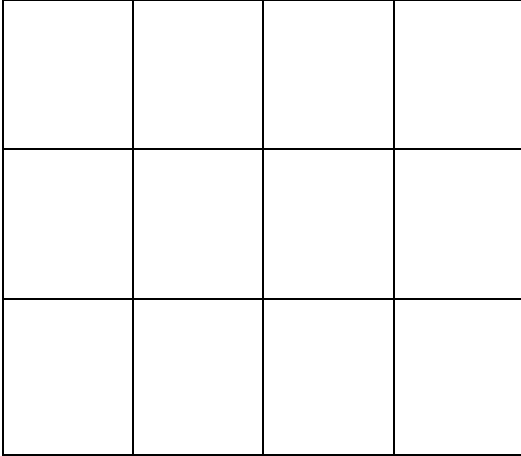
3. A = _____
    A = _____
    A = _____

One square is 1 centimeter on a side.

4. A = _____
    A = _____
    A = _____

One square is 1 yard on a side.
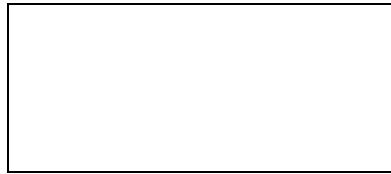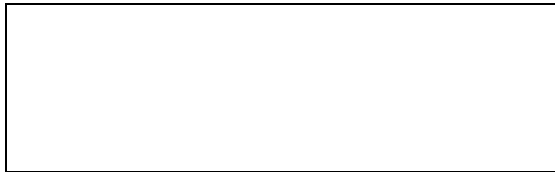
Using a ruler, draw a square inch.

Cut out the square inch.
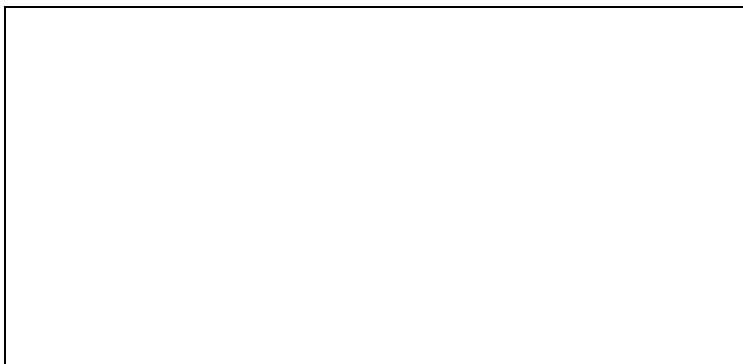**Use the square inch to find the area of the figures below.**

1. A = _____ square inches

2. A = _____ inches^2

3. A = _____ square inches

Using a ruler, draw a square centimeter.

Cut out the square centimeter.
Use the square centimeter to find the area of the figures below.

1. A = _____ square cm
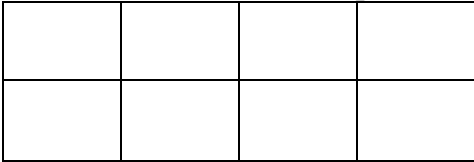
2. A = _____ square cm

3. A = _____ cm²

Study the following.

To find the area of a square or rectangle, instead of counting up all the unit squares inside, you can multiply.

Multiplication is just adding the same thing again and again.

Example:

Find the area if each square is a foot on each side.

So instead of adding the first row (4) plus the second row (4), you can multiply the number of rows (2) by the number of columns (4).
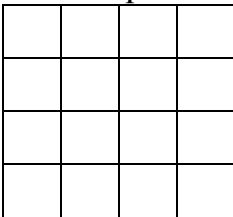
      2 rows × 4 columns = 8

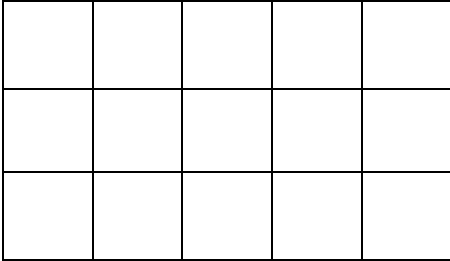   Area = 8 feet^2

Find the area using multiplication.
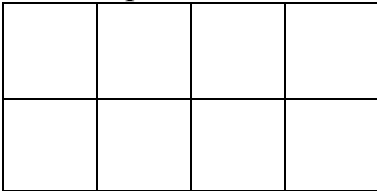
1. A = _____

Each square is 1 inch on each side
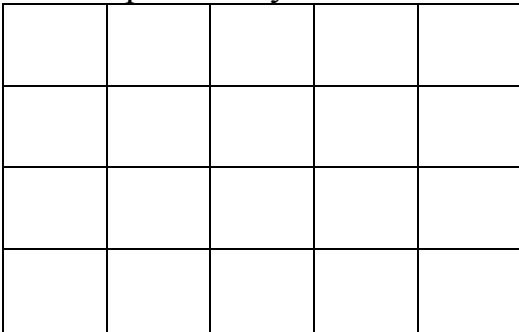
2. A = _____

Each square is one foot on each side.
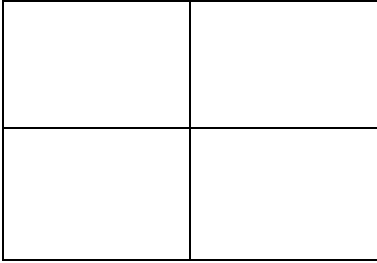
3. A = _____

Each square is one inch on each side.

4. A = _____

Each square is 1 yard on each side.

5. A = _____

Each square is one cm on each side.

6. A = _____

Each square is 1 meter on each side.