

**Action:** to calculate the area of a shape.

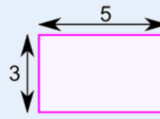
Area is the amount of space taken up by a 2D shape or surface. We measure area in square units:

For example  $\text{cm}^2$  or  $\text{m}^2$ .

### Area of Simple Shapes

There are special formulas for certain shapes:

Example: What is the area of this rectangle?



The formula is:

$$\text{Area} = w \times h$$

w = width

h = height

The width is 5, and the height is 3, so we know **w = 5** and **h = 3**:

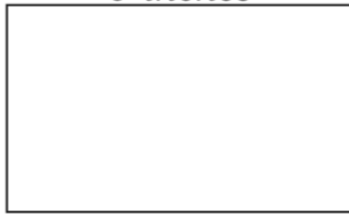
$$\text{Area} = 5 \times 3 = 15$$

### Practice

1.

6 inches

3 inches



2.

7 inches

2 inches



3.

9 inches

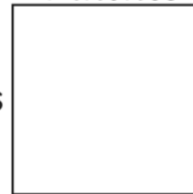
1 inch



4.

4 inches

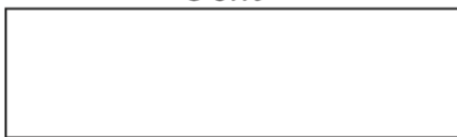
4 inches



5.

8 cm

2 cm



6.

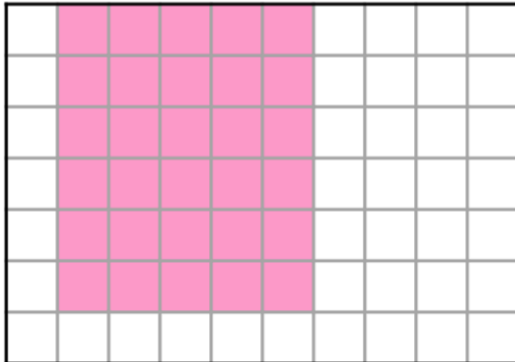
7 cm

3 cm



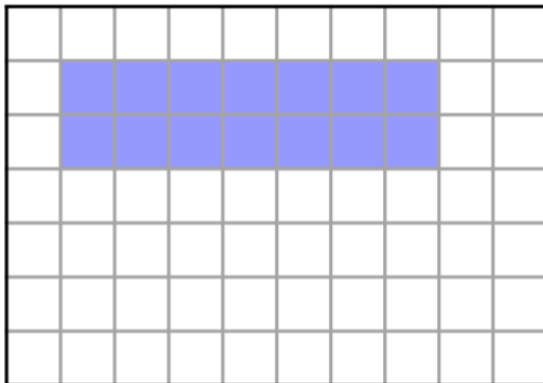
Apply

**1a. Complete the shape to make a rectangle with an area of  $54\text{cm}^2$ .**



**Label the length and width of the rectangle.**

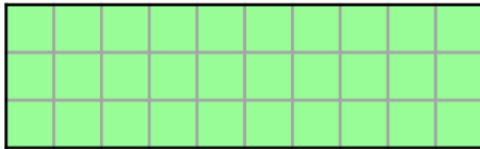
**1b. Complete the shape to make a rectangle with an area of  $42\text{cm}^2$ .**



**Label the length and width of the rectangle.**

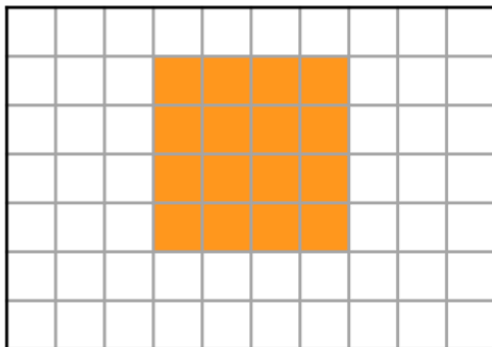
**1b. Chuan is buying floor tiles for the school hall.**

**The area of each tile is  $1\text{m}^2$ .**



**Chuan thinks he needs to order 27 tiles.  
Is he correct? Explain your answer.**

**2b. This rectangle has an area of  $16\text{cm}^2$ .  
Find other possible lengths and widths  
which give the same area.**



**Find 2 possible answers.**

