Measure Area By Counting Units- Guided Lesson Explanation
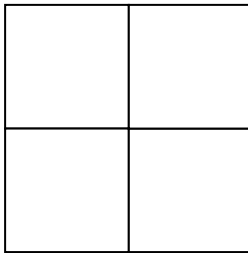
Explanation 1:

Find the area of one square. We know that each side is 4 cm:

4 cm X 4 cm = 16 cm^2

To find the area of square first count all the small boxes in the square. This figure contains 4 small boxes. Multiply 4 small boxes with the adjacent sides' i.e.

16 X 4 = 64 cm^2

The area of square is 64 cm^2.

Explanation 2:

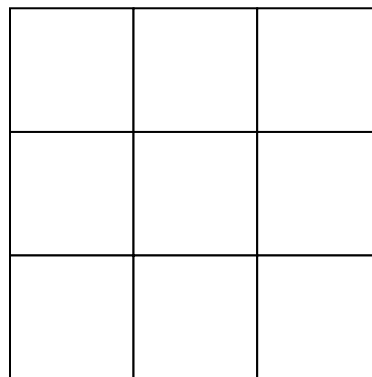Step 1) Find the area of one box first:

1 cm x 1 cm = 1 cm^2

Step 2) The area of the square they want us to draw is 9 cm^2. Let's figure out how many of our boxes fit into that area.

9 cm^2 / 1 cm^2= 9 boxes. This tells us we need to draw a 9 box structure. It could be in any orientation; as long as there are 9 boxes.

The shape of a square could be:

Explanation 3:

Step 1) Count all the small squares in the figure. This will help us determine how the area is broken up into squares. There are 6 boxes.

To find the adjacent sides of a square, divide area of square i.e. 24 cm^2 with the number of 6 small boxes. This tells us the area of one box.

24 cm^2 / 6 = 4 cm^2

 To know the adjacent sides of square determine

 _____ cm x _____ cm = 4 cm^2

2 cm x 2 cm = 4 cm^2

The adjacent sides of a square are

2 cm

2 cm