

Draw a centimeter unit and a square centimeter unit. Describe what could be measured with each unit.

→ cm

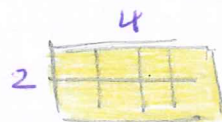
- straight lines or linear things could be measured.
- width of desk
- length of paper



- flat surfaces could be measured
- floor tiles
- desk top

Why is the area of a rectangle calculated by multiplying the length times the width?

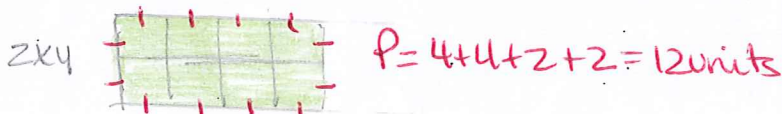
Quick way to find all the small squares inside.



2 rows of 4
 $2 \times 4 = 8 \text{ cm}^2$

(Quicker than counting)

How does rearranging a figure affect its area and perimeter?



Adding squares in the middle causes the perimeter to get smaller. Adding length gets longer.

Why do we measure area in square units?

- Area tells how many squares fit inside.
- 2 dimensional things have a length and width
- We are covering the whole inside; it is the easiest way.
- Measuring in squares avoids gaps so it's more accurate