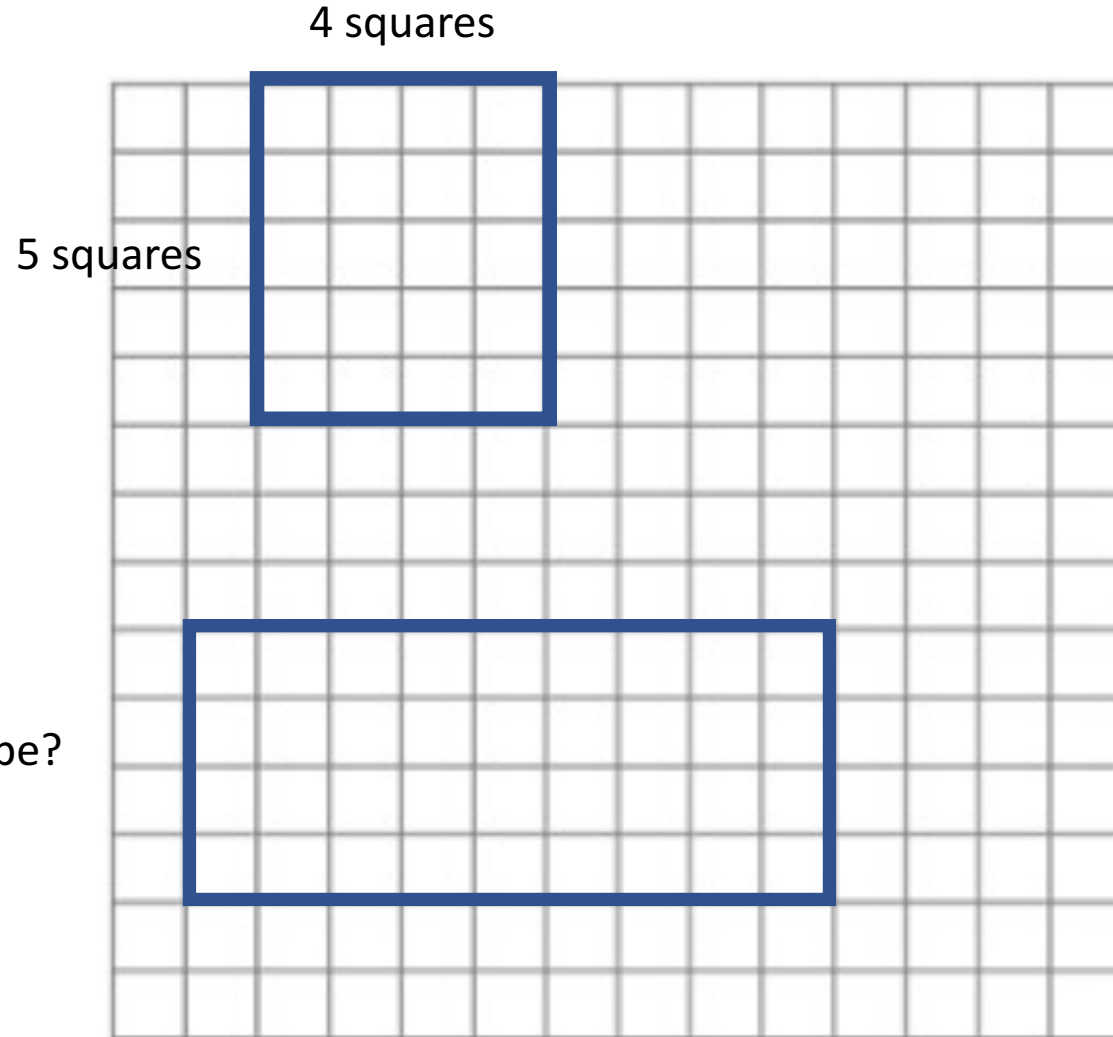


What is area?

Area is the amount covered inside a shape.

When you have a rectangle of
4 by 5 squares there is a total of
20 squares inside the shape.
This can be calculated by $4 \times 5 = 20$



Now what?



We do not always have grid or chart paper to support our measurements and shapes. The same process can be completed. You have 15m by 5ms, $15 \times 5 = 75 \text{ cm}^2$

46m

4m

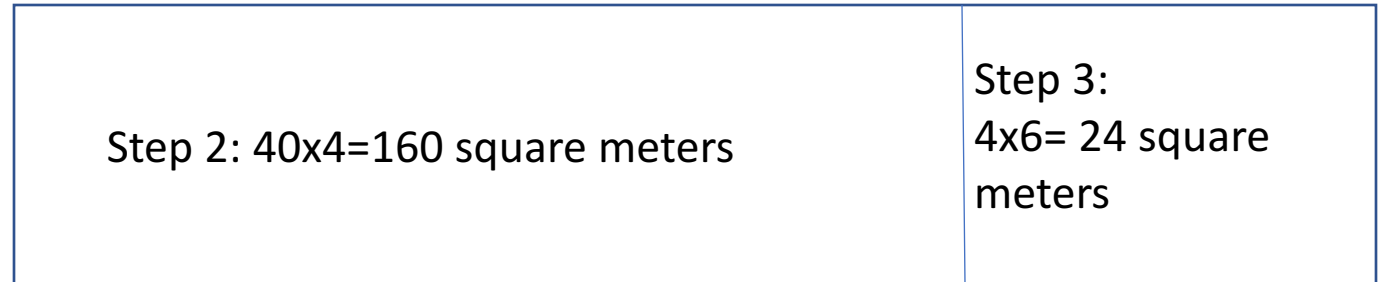


Step 1: The number is broken into its place values

40m

6m

4m

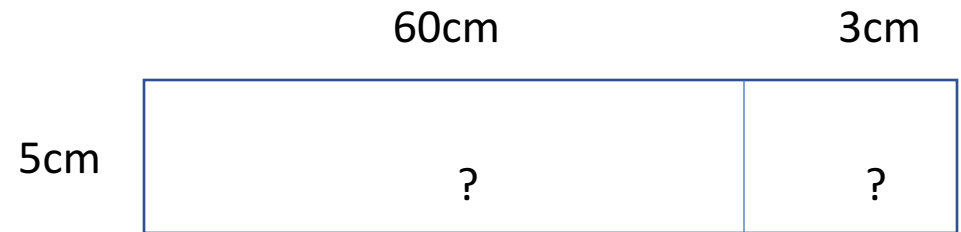


Step 4: Add 160 to 24 to get 184 square meters

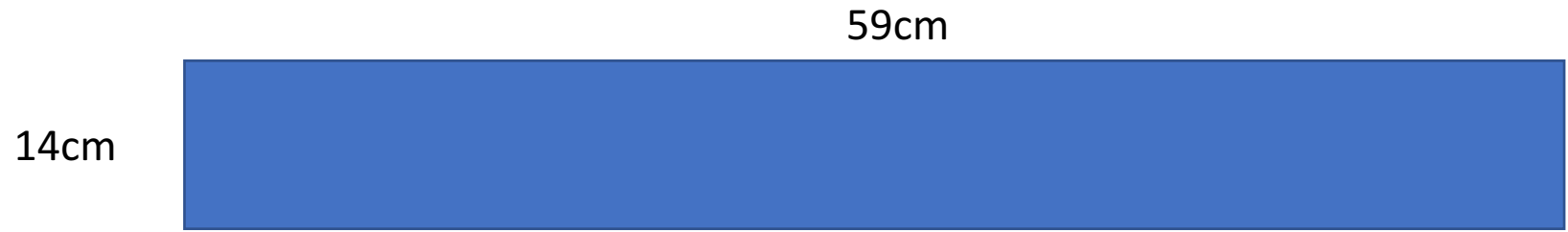
These multiplication processes can be difficult as our numbers continue to increase in size. The area model for multiplying uses the shape we created to find the answer.



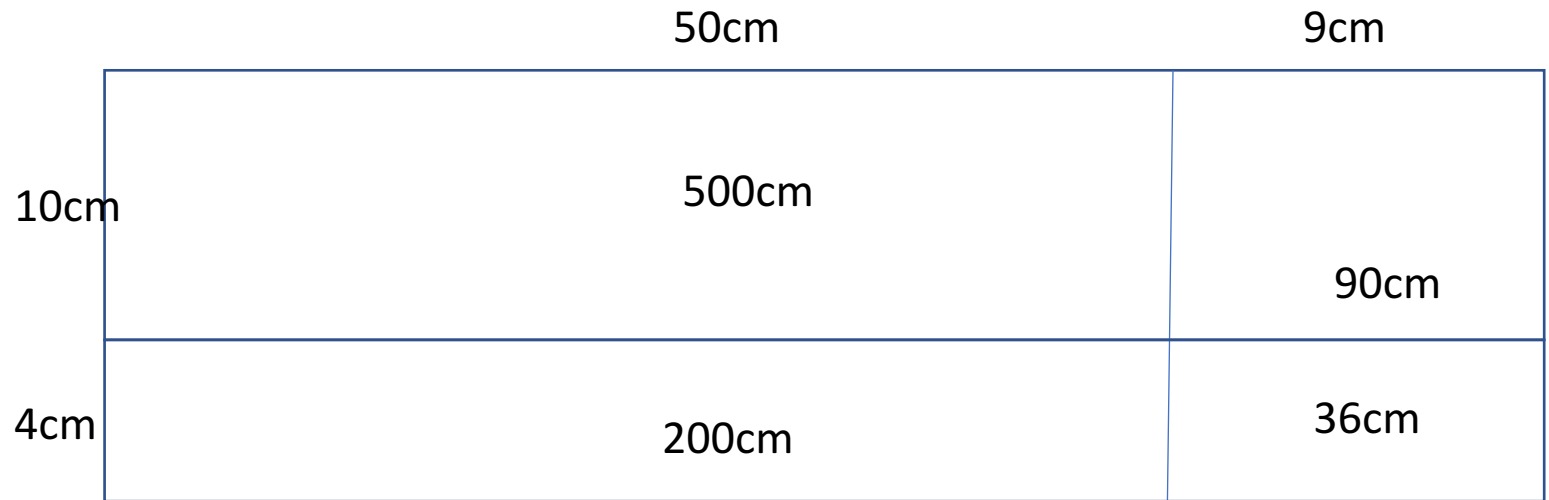
This visual format for multiplying ensures students have completed the multiplication needed in each place value before they say they have the final value.



Cannot say they are done until each section is full



This strategy can easily be adapted to larger questions.
 The strategy does rely on good skip counting and mental math processes.



$$700+90+36=826 \text{ square cm}$$