

Multiplication - Pt2

Learning Goal:

By the end of this lesson I should be able to MULTIPLY double and triple digit positive numbers together using an AREA MODEL, WITHOUT the use of a calculator (technology).

It is important to remember that **MULTIPLICATION** is a shortcut for repetitive addition.

When we are asked to multiply numbers together, the final result is called the **PRODUCT**.

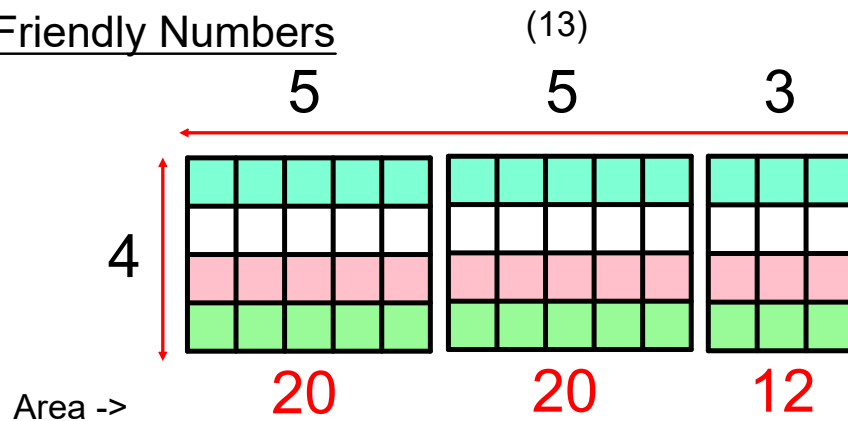
Product -> Multiply -> "Times"

(similar meaning)

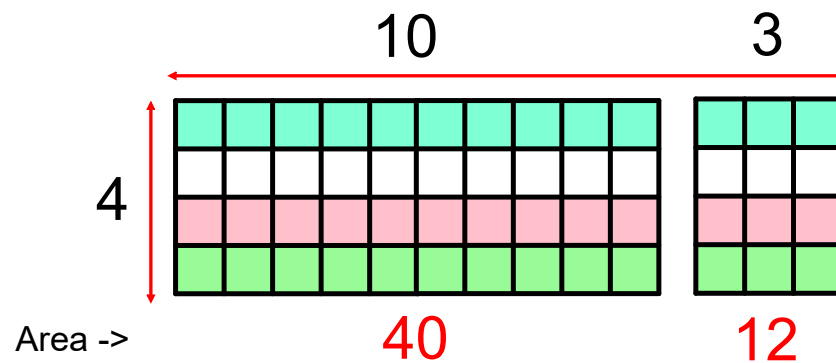
Find the product of 4×13

Area Model - Friendly Numbers

$$4 \times 13 = 52$$

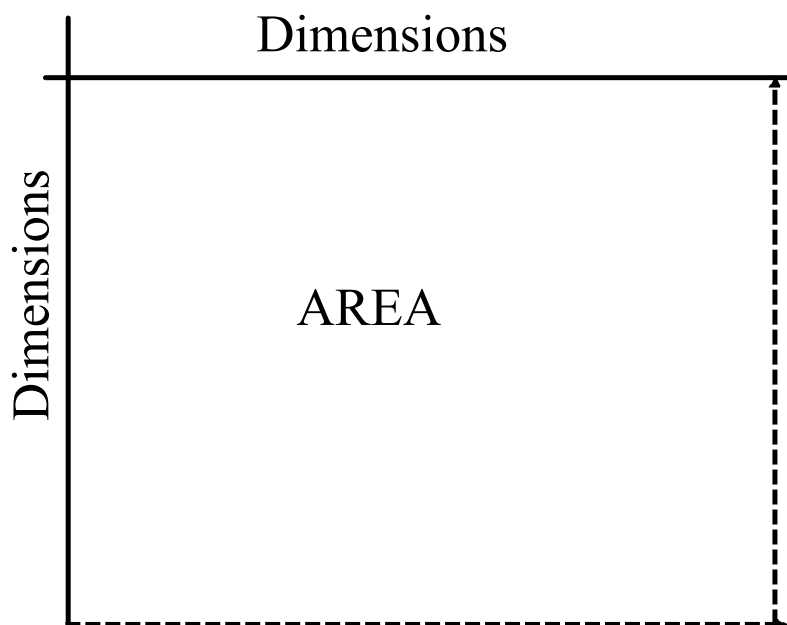


$$4 \times 13 = 52$$



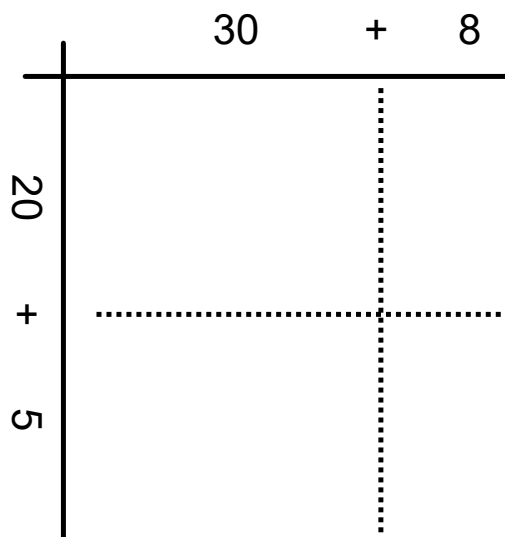
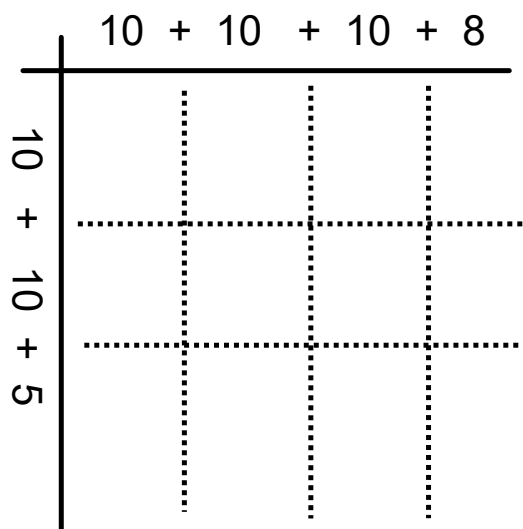
Calculate smaller areas, then add them up to determine the final product.

When using the Area Model, there are two regions;
Dimensions go on the outside of the rectangle,
Area is on the inside of the rectangle.



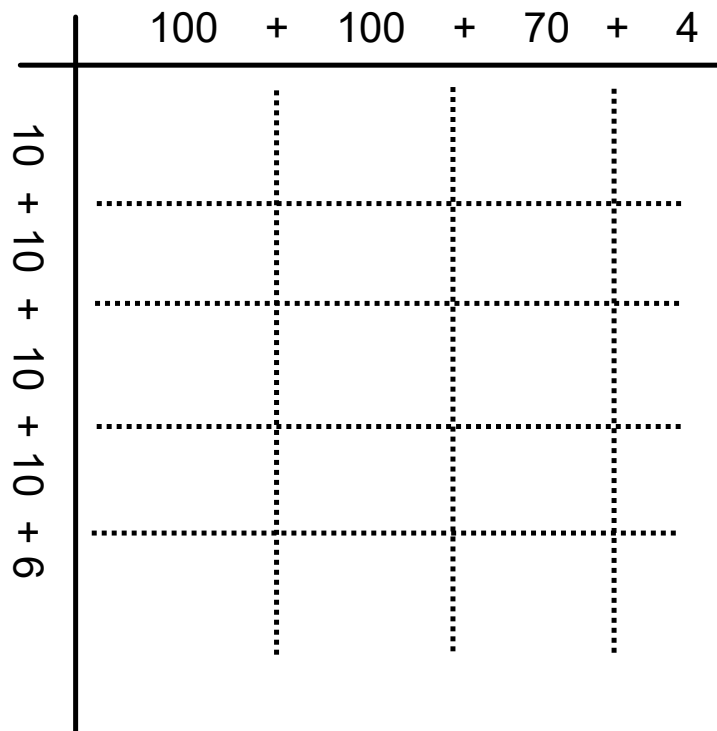
Find the product of 38×25

Area Model - Friendly Numbers



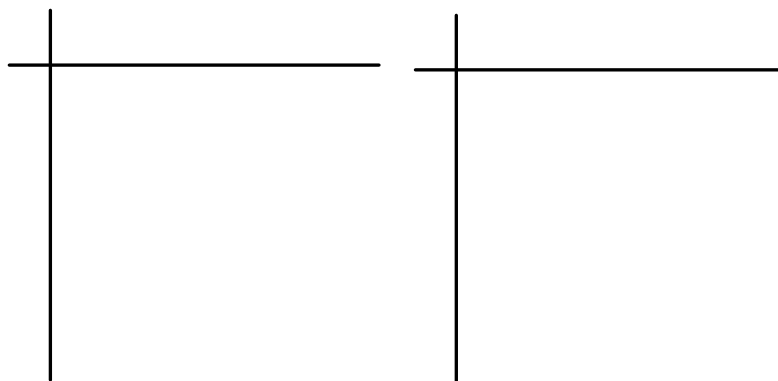
Find the product of 274×46

Area Model - Friendly Numbers



Find the PRODUCT for the following using an area model:

(a) $(28)(30)$



(b) $(225)(114)$

Task 2.3