Multiplication - pt 1

Learning Goal:

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

Feb 3-1:54 PM

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

Example:

5+5+5+5+5+5

is the same as 5x6 or (5)(6) or 6x5 or (6)(5)

This is read as "six groups of five".

The order of the numbers does not change the final product (result).

Feb 20-10:31 AM

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

Product -> Multiply -> "Times"

(similar meaning)

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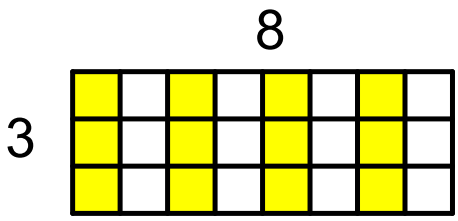
Area Model and Friendly Numbers

"Eight times three" can be represented by the following:

$(3)(8)=$



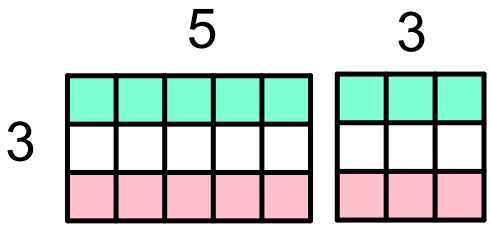
(3)(8)

= (3)(5+3)

= (3)(5) + (3)(3)

=

=

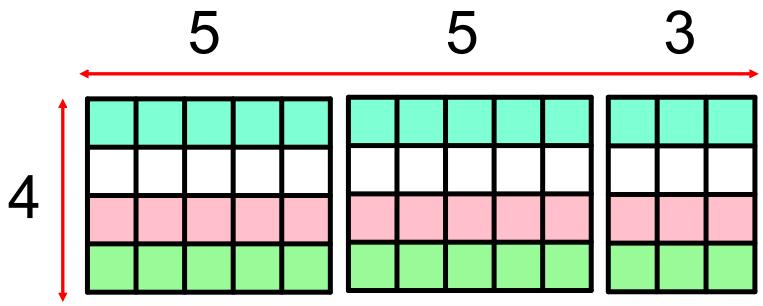


Calculate smaller areas, then add them up to determine the final product.

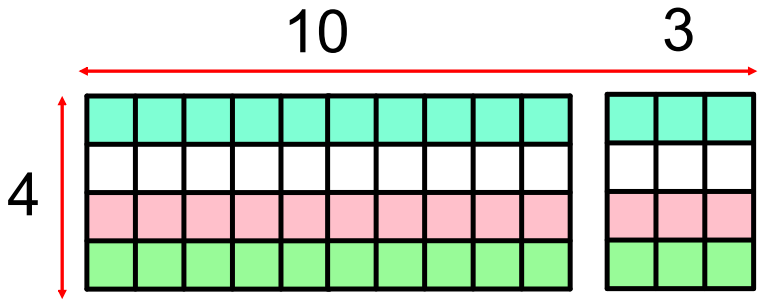
Find the product of 4x13

Area Model - Friendly Numbers (13)

4x13=



4x13=



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

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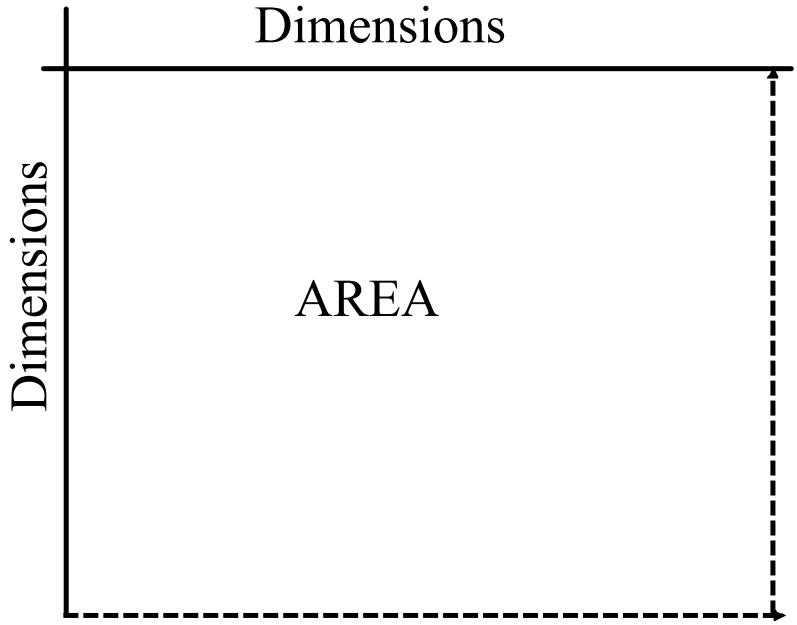
When using the Area Model, there are two regions; **Dimensions** go on the outside of the rectangle, **Area** is on the inside of the rectangle.



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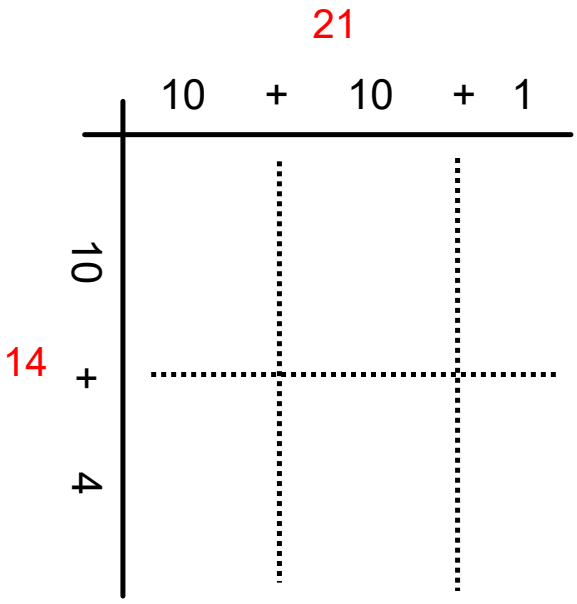
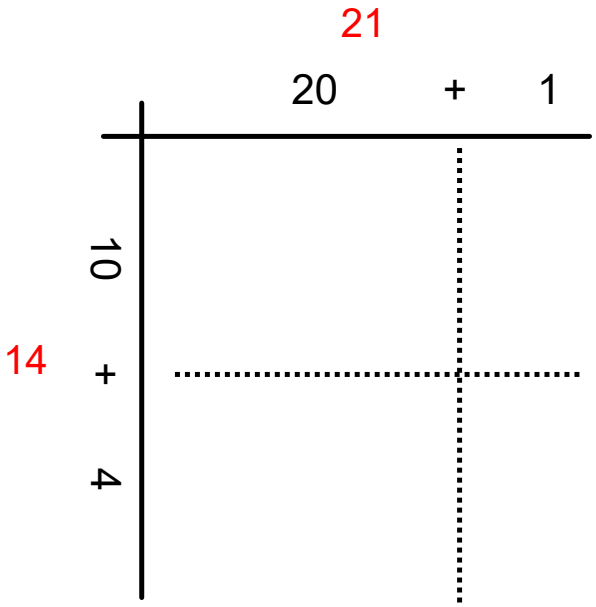
Find the product of 14 x 21

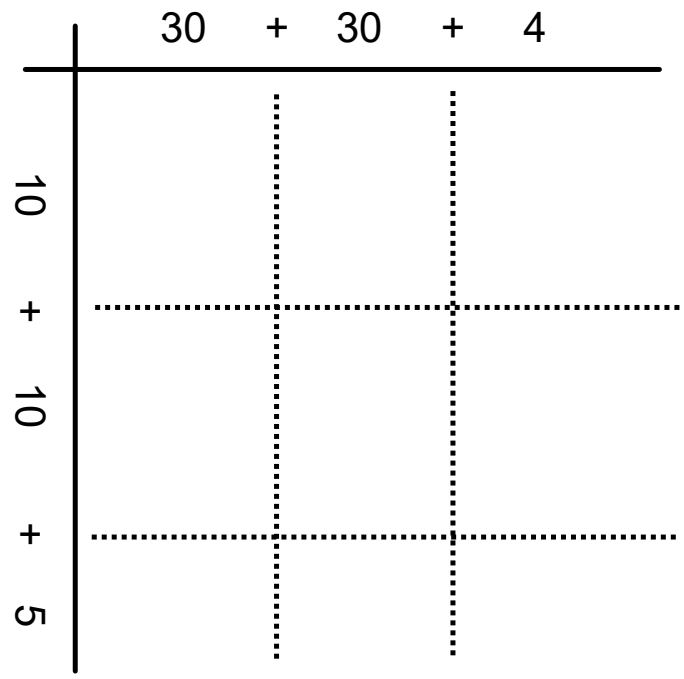
Area Model - Friendly Numbers





Find the product of 64 x 25

Area Model - Friendly Numbers



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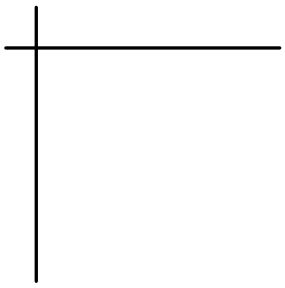
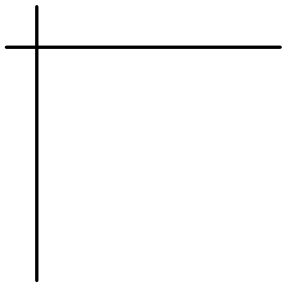
Press PAUSE on the video and try the following

Find the PRODUCT for the following using an area model:

(a) (17)(14)



(b) (25)(24)



Task 2.2

Feb 5-10:12 AM