Multiplication - D.P.

Learning Goal:

By the end of this lesson I should be able to MULTIPLY single and double digit positive numbers together using the DISTRIBUTIVE PROPERTY of MULTIPLICATION, 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.

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

Product -> Multiply -> "Times"

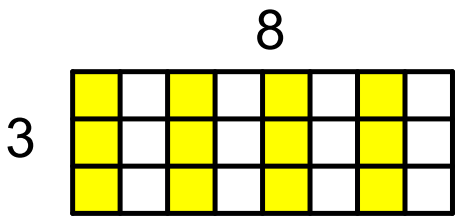
(similar meaning)

Feb 20-10:44 AM

Area Model and Friendly Numbers

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

$(3)(8) = 24$



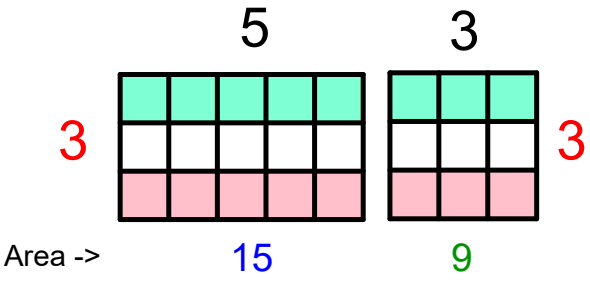
(3)(8)

= (3)(5+3) (distributive property)

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

= 15 + 9

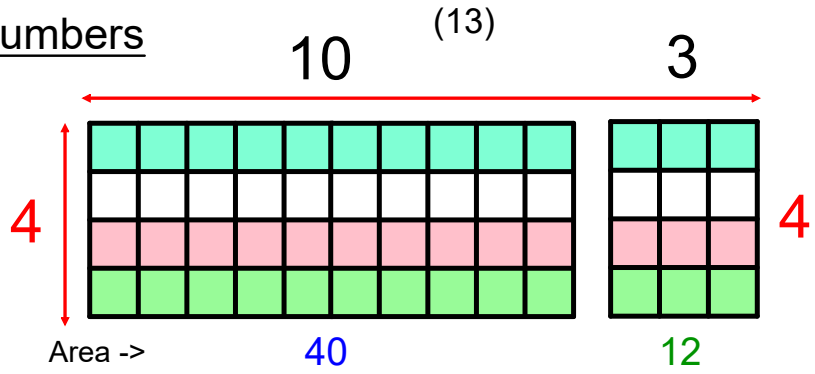
= 24



Find the product of 4x13

Area Model - Friendly Numbers

4x13 = 52



Number Model - Distributive Property

(4)(13)

=(4)(10+3)

=(4)(10)+(4)(3) (distributive property)

= 40 + 12

= 52

Find the product of 8 x 21

Number Model - Dist. Prop

(8)(21)

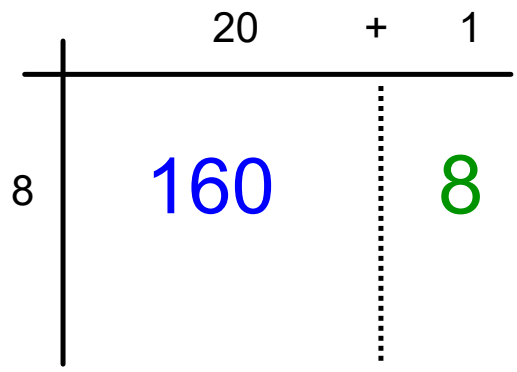
=(8)(20+1)

=(8)(20)+(8)(1) (dist. prop.)

= 160 + 8

= 168

Area Model - Friendly Numbers



Be Careful! There are some tricky parts!

Find the product of 6 x 75

Number Model - Dist. Prop

(6)(75)

= (6)(50+20+5)

= (6)(50)+(6)(20)+(6)(5) (dist. prop.)

= (300)+(120)+(30)

= 300 + 100 + 20 + 30

= 400 + 50

= 450

Area Model - Friendly Numbers

	50	+	20	+	5
6	300		120		30

Find the PRODUCT for the following using the Distributive Property.

(a) (5)(14)

$(5)(10+4) =$

(b) (8)(28)

$(8)(20+8) =$

(c) (6)(125)

$(6)(100+20+5) =$

Task - 2.4

Feb 5-10:12 AM