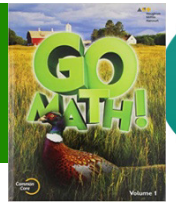
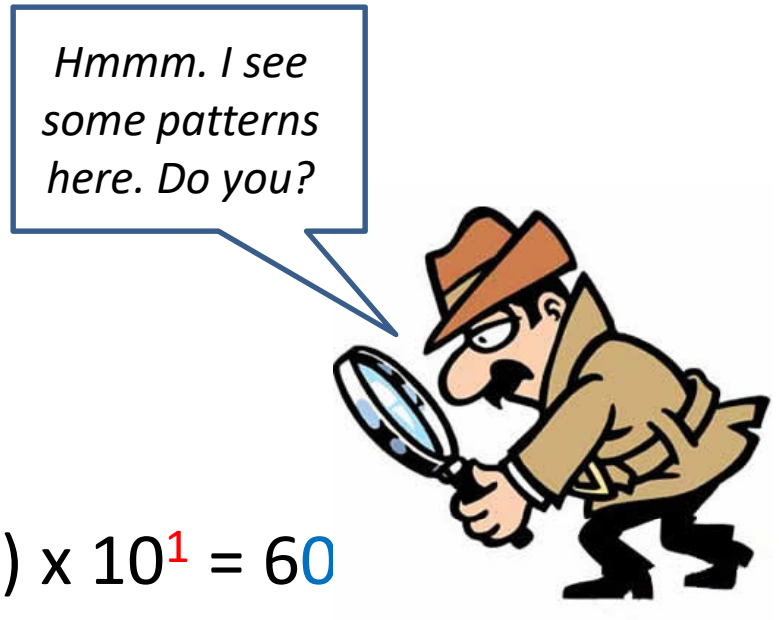
Go-Math Lesson 1-5



Algebra – Multiplication Patterns



$3 \times 2 = 6$

$30 \times 2 = (3 \times 2) \times 10^{1} = 60$

$300 \times 2 = (3 \times 2) \times 10^{2} = 600$

$3{,}000 \times 2 = (3 \times 2) \times 10^{3} = 6{,}000$

$30{,}000 \times 2 = (3 \times 2) \times 10^{4} = 60{,}000$

As the exponent increases, the number of zeros in the product increases.

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Algebra – Multiplication Patterns

Hmmm. I see some patterns here. Do you?

$5 \times 8 = 40$

$5 \times 80 = (5 \times 8) \times 10^1 = 400$

$5 \times 800 = (5 \times 8) \times 10^2 = 4{,}000$

$5 \times 8{,}000 = (5 \times 8) \times 10^3 = 40{,}000$

$50 \times 8{,}000 = (5 \times 8) \times 10^4 = 400{,}000$

Notice the additional zeros in the products. **Why are they there?**

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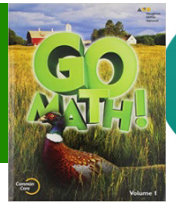


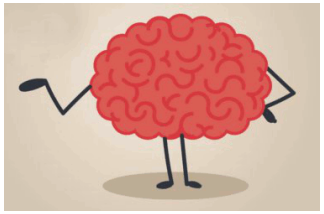
Practice Makes Progress:

$9 \times 5 =$ **45** *Always start with the basic multiplication fact!*

$(9 \times 5) \times 10^1 =$ **45 x 10 = 450**

$(9 \times 5) \times 10^2 =$ **45 x 100 = 4,500**

$(9 \times 5) \times 10^3 =$ **45 x 1,000 = 45,000**

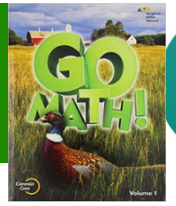


*Once you begin to recognize these patterns, you can begin to use **MENTAL Math** to solve problems very quickly!*

$8 \times 8 \times 10^4 =$

First do the basic fact of 8 x 8 in your head. Got it?
Next, look at the exponent. What is it?
Then place that many zeros after the basic fact product.
Your answer is 640,000!!

Go-Math Lesson 1-5



Your tasks:

1. Complete Google Classroom assignments
2. Complete Think Central assignments
3. Watch videos posted on the website
4. Complete IXL Skills for the week

You have a lot to do – Don't waste time!