## MM: Multiplication Patterns

When you multiply a number by ten (10) or hundred (100) or thousand (1000), you will end up having the same number but with different place value.

When we multiply 9 by 10, you're not actually adding a zero; you're moving the digit one place to the left and then, since you can't leave a space, putting a zero to mark the 'units' place.

 $7 \times 8 = 56$ ; what about  $7 \times 80$ ?

When you compare you notice that 7 is multiplied by 80 instead of 8, so we need to move 56 one place value to the left and add a zero

 $7 \times 80 = 560$ 

## **Examples:**

A- Use mental math to complete the pattern.

B- Use mental math to find the product.

$$3)5 \times 800$$

<u>4,000</u>

<u>12,000</u>

1,800