

**Multiplying By 1001:**

- A. Multiplying by 1001 is similar to [\*Multiplying by 101\*](#). To multiply a 3-digit number by 1001 you simply write the number down twice. To multiply a 2-digit number you write down the number twice with a 0 in the middle.

Ex [1]  $123 \times 1001 = 123123$ .

Ex [2]  $72 \times 1001 = 72072$ .

- B. You can also multiply variations of 1001 like 2002, 1002, 3002, etc. by using the following example:

Ex [1]  $132 \times 2003 = \underline{\hspace{2cm}}$ .

- a) Multiply  $2 \times 132$  and write it down or 264.
- b) Multiply  $3 \times 132$  and write it down or 396.
- c) The answer is 264396.