

## Topic B Quiz Prep (Lessons 7 – 11)

**Item 1:** Find the value of the expression:

$$8 \times (300 + 50 + 7)$$

First add the numbers in the parenthesis.

Next, multiply using the Standard Algorithm method.

$$8 \times 357 = \begin{array}{r} 357 \\ \times 8 \\ \hline 2,856 \end{array}$$

**Item 2:** Multiply 3-digit x 3-digit numbers:

$$643 \times 802$$

$$\begin{array}{r} 643 \\ \times 802 \\ \hline 1286 \\ 0000 \\ + 514400 \\ \hline 515,686 \end{array}$$

← Remember, to shift once (place one zero)  
← Remember, to shift twice (place two zeros)

Multiply 4-digit x 2-digit numbers:

$$7,225 \times 53$$

$$\begin{array}{r} 7,225 \\ \times 53 \\ \hline 21675 \\ + 361250 \\ \hline 382,925 \end{array}$$

← Remember, to shift once (place one zero)

## Topic B Quiz Prep (Lessons 7 – 11)

**Item 3:** Use BOTH an AREA MODEL and the STANDARD ALGORITHM to multiply 3-digit x 3-digit numbers.

$$643 \times 452 =$$

	400	50	2
3	1200	150	6
40	16000	2000	80
600	240000	30000	1200

240,000	643	
30,000	x 452	
16,000	-----	
2,000	1286	
1,200	32150	← Remember, to shift once (place one zero)
1,200	+ 257200	← Remember, to shift twice (place two zeros)
150	-----	
80	290,636	
+ 6		
-----		
<b>290,636</b>		

**Item 4:** Write an expression that shows a reasonable estimate.

A company orders 377 cases of paper. Each case has 1,625 sheets of paper.

**Reasonable estimate:**       $\underline{400} \times \underline{1600} = \underline{640,000}$

## Topic B Quiz Prep (Lessons 7 – 11)

Item 5: Correct a mistake.

$$\begin{array}{r} 256 \\ \times 18 \\ \hline 2048 \\ + 256 \\ \hline 2,304 \end{array}$$

Mistake! Why?

Because the “1” in the number 18 represents **1 tens**, or 10. Therefore, there should be a zero here, shifting everything over to the left.