

## STUDENT MATERIALS

Solve the following problems:

$\begin{array}{r} 232 \\ 1. \ 1344 \\ \times \ 7 \\ \hline 9408 \end{array}$	$\begin{array}{r} 933 \\ 2. \ 5879 \\ \times \ 4 \\ \hline 23516 \end{array}$	$\begin{array}{r} 11 \\ 3. \ 8123 \\ \times \ 6 \\ \hline 48738 \end{array}$
$\begin{array}{r} 4. \ 23 \\ \times \ 17 \\ \hline 23 \\ 230 \\ \hline 253 \end{array}$	$\begin{array}{r} 12 \\ 5. \ 86 \\ \times \ 24 \\ \hline 344 \\ 1720 \\ \hline 2064 \end{array}$	$\begin{array}{r} 31 \\ 6. \ 25 \\ \times \ 73 \\ \hline 175 \\ 1750 \\ \hline 1825 \end{array}$

7. Jonas says that “if you multiply a four-digit number by a one-digit number, you get a five-digit number.”

Place numbers into the table to show when Jonas’ claim is true and to show when his claim is not true. (False)

Example of when.....	4-digit number	1-digit number	Product
	$1 \times = 5 \text{ digits}$	$1 \text{ digit} \times 1 \text{ digit} = 5$	Answer = 5 digits
Jonas’ claim is true			
Jonas’ claim is <b>NOT</b> true	not true	not true	not true

8. Angela claims that “when you multiply two two-digit numbers you will only get a four-digit number as an answer.” Is Angela correct? Explain. Make sure to

provide an example. Angela is not correct because if you multiply two digit numbers you are not always going to get a four digit number but you are going to get a three digit number.



10B. In the area model shown below,  $D = 48$ . What are the values for A, B, and C? Show how you got the answers.

	30	+8
10	A	C
+6	B	D

A =           ?

B =           ?

C =           ?

Total area =           ?

10C. The area models shown above in 10A and 10B are two lawns that Bobby can mow during the summer. He charges \$25 to mow a lawn. Which lawn is the better choice for him to mow for that cost? Explain.

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