

STUDENT MATERIALS

Solve the following problems:

$\begin{array}{r} 232 \\ 1. \ 1344 \\ \times \ 7 \\ \hline 9,408 \end{array}$	$\begin{array}{r} 333 \\ 2. \ 5879 \\ \times \ 4 \\ \hline 23,516 \end{array}$	$\begin{array}{r} 11 \\ 3. \ 8123 \\ \times \ 6 \\ \hline 48,738 \end{array}$
$\begin{array}{r} 4. \ 23 \\ \times \ 11 \\ \hline 23 \\ 230+ \\ \hline 253 \end{array}$	$\begin{array}{r} 1 \\ 5. \ 86 \\ \times \ 24 \\ \hline 1344 \\ 1720+ \\ \hline 2064 \end{array}$	$\begin{array}{r} 3 \\ 6. \ 25 \\ \times \ 78 \\ \hline 105 \\ 1750+ \\ \hline 1,855 \\ \times \end{array}$

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.

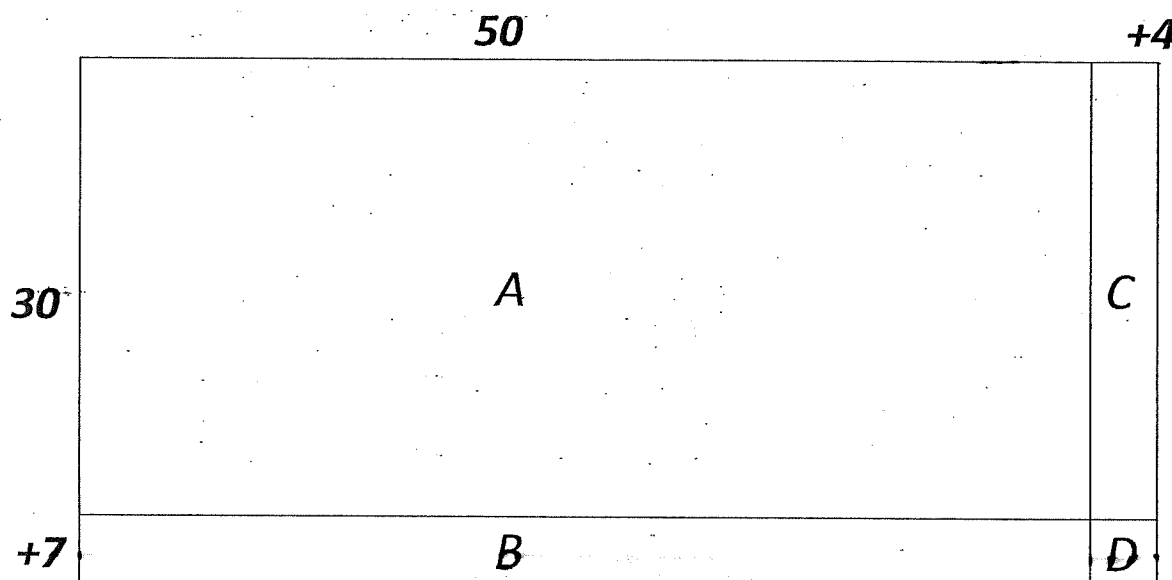
Example of when.....	4-digit number $1 \times 4 = 5 \text{ digit}$	1-digit number $1 \times 5 = 5$	Product $\text{answer} = 5 \text{ digit}$
Jonas’ claim is true	False	False	true
Jonas’ claim is NOT true	False	False	true

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.

No, Angela is not correct. Because when you multiply two digit numbers sometimes the product is a three digit number.

9. Fill in the blanks: $74 \times 24 = (70 + \underline{4}) \times (\underline{20} + 4)$

10A. In the area model shown below, $D = 28$. What are the values for A, B, and C? Show how you got the answers.



A= _____

B= _____

C= _____

Total area= _____

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.