

## STUDENT MATERIALS

Solve the following problems:

<p>1. 1344  <math>\begin{array}{r} \text{X } 7 \\ \hline 9408 \end{array}</math></p>	<p>2. 5879  <math>\begin{array}{r} \text{X } 4 \\ \hline 23298 \end{array}</math></p>	<p>3. 8123  <math>\begin{array}{r} \text{X } 6 \\ \hline 48036 \end{array}</math></p>
<p>4. 23  <math>\begin{array}{r} \text{X } 11 \\ \hline 33 \\ + 220 \\ \hline 253 \end{array}</math></p>	<p>5. 86  <math>\begin{array}{r} \text{X } 24 \\ \hline 344 \\ + 120 \\ \hline 464 \end{array}</math></p>	<p>6. 25  <math>\begin{array}{r} \text{X } 73 \\ \hline 75 \\ + 350 \\ \hline 445 \end{array}</math></p>

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

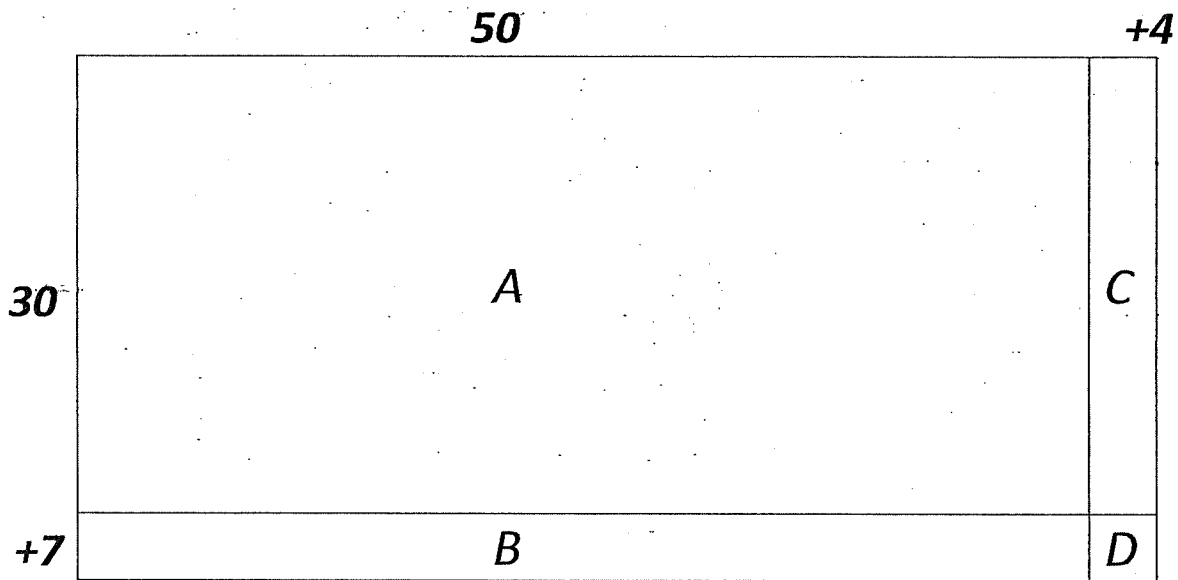
Place numbers into the table to show when Jonas’ claim is true and to show when his claim is not true.

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

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.

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.