

Name Jack

Date \_\_\_\_\_

1. Solve the following expressions using the standard algorithm, the partial products method, and the area model.

a.  $425 \times 4$

$\begin{array}{r} 425 \\ \times 4 \\ \hline 20 \\ 80 \\ + 1,600 \\ \hline 1,700 \end{array}$	$\begin{array}{r} 425 \\ \times 4 \\ \hline 1,700 \end{array}$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%;">400</td> <td style="width: 10%;">20</td> <td style="width: 10%;">5</td> </tr> <tr> <td style="width: 10%;">4</td> <td style="width: 50%;">1,600</td> <td style="width: 15%;">80</td> <td style="width: 15%;">20</td> </tr> </table> <p style="text-align: center;"> <math>4(400 + 20 + 5)</math>  <math>(4 \times 400) + (4 \times 20) + (4 \times 5)</math> </p>		400	20	5	4	1,600	80	20
	400	20	5							
4	1,600	80	20							

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b.  $534 \times 7$

$\begin{array}{r} 534 \\ \times 7 \\ \hline 28 \\ 210 \\ + 3,500 \\ \hline 3,738 \end{array}$	$\begin{array}{r} 534 \\ \times 7 \\ \hline 3,738 \end{array}$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%;">500</td> <td style="width: 10%;">30</td> <td style="width: 10%;">4</td> </tr> <tr> <td style="width: 10%;">7</td> <td style="width: 50%;">3,500</td> <td style="width: 15%;">210</td> <td style="width: 15%;">28</td> </tr> </table> <p style="text-align: center;"> <math>7(500 + 30 + 4)</math>  <math>(7 \times 500) + (7 \times 30) + (7 \times 4)</math> </p>		500	30	4	7	3,500	210	28
	500	30	4							
7	3,500	210	28							

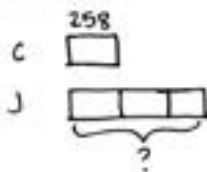
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c.  $209 \times 8$

$\begin{array}{r} 209 \\ \times 8 \\ \hline 1,672 \end{array}$	$\begin{array}{r} 209 \\ \times 8 \\ \hline 72 \\ + 1,600 \\ \hline 1,672 \end{array}$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%;">200</td> <td style="width: 10%;">9</td> </tr> <tr> <td style="width: 10%;">8</td> <td style="width: 50%;">1,600</td> <td style="width: 15%;">72</td> </tr> </table> <p style="text-align: center;"> <math>8(200 + 9)</math>  <math>(8 \times 200) + (8 \times 9)</math> </p>		200	9	8	1,600	72
	200	9						
8	1,600	72						

2. Solve using the partial products method.

Cayla's school has 258 students. Janet's school has 3 times as many students as Cayla's. How many students are in Janet's school?

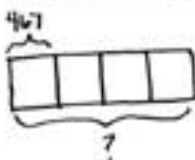


$$\begin{array}{r} 258 \\ \times 3 \\ \hline 24 \\ 150 \\ + 600 \\ \hline 774 \end{array}$$

There are 774 students at Janet's school.

3. Model with a tape diagram and solve.

4 times as much as 467.



$$\begin{array}{r} 467 \\ \times 4 \\ \hline 1868 \end{array}$$

Solve using the standard algorithm, the area model, the distributive property, or the partial products method.

4.  $5,131 \times 7$

$$\begin{array}{r} 5,131 \\ \times 7 \\ \hline 35,917 \end{array}$$

5. 3 times as many as 2,805.

	2,000	800	5
3	6,000	2,400	15

$$(3 \times 2,000) + (3 \times 800) + (3 \times 5) = 6,000 + 2,400 + 15 = 8,415$$

6. A restaurant sells 1,725 pounds of spaghetti and 925 pounds of linguini every month. After 9 months, how many pounds of pasta does the restaurant sell? Write your answer as a statement.

$$\begin{array}{r} 1,725 \\ + 925 \\ \hline 2,650 \end{array}$$

	2,000	600	50
9	18,000	5,400	450

$$(9 \times 2,000) + (9 \times 600) + (9 \times 50) = 18,000 + 5,400 + 450 = 23,850$$

The restaurant sells 23,850 pounds of pasta in 9 months.

