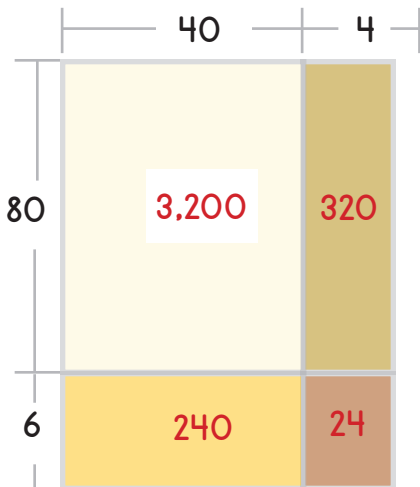


Name: _____ Date: _____



Complete the models by filling in the empty boxes.

Example



The area of each rectangle is missing. Starting from the top left, find each missing product:

$$80 \times 40 = 3,200$$

$$6 \times 40 = 240$$

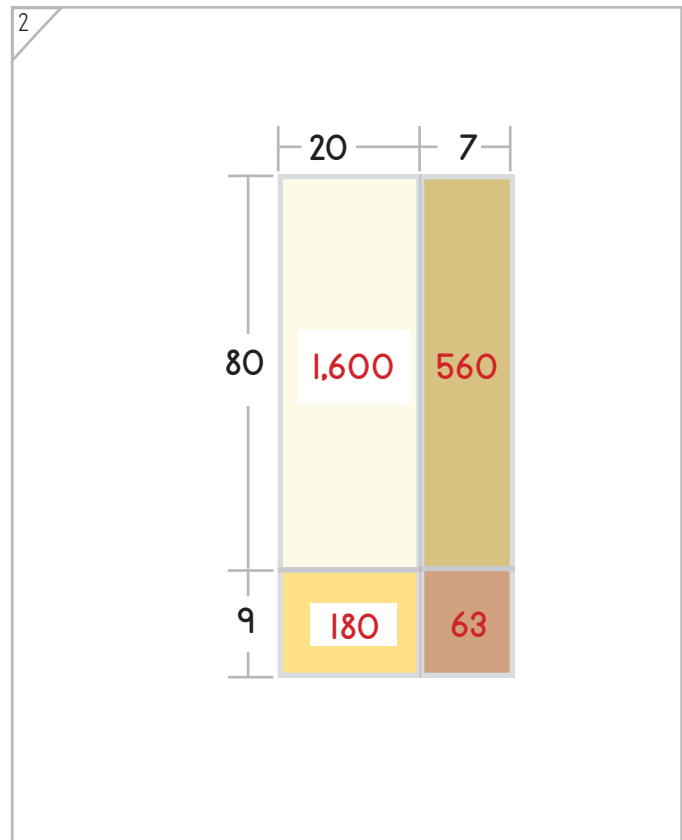
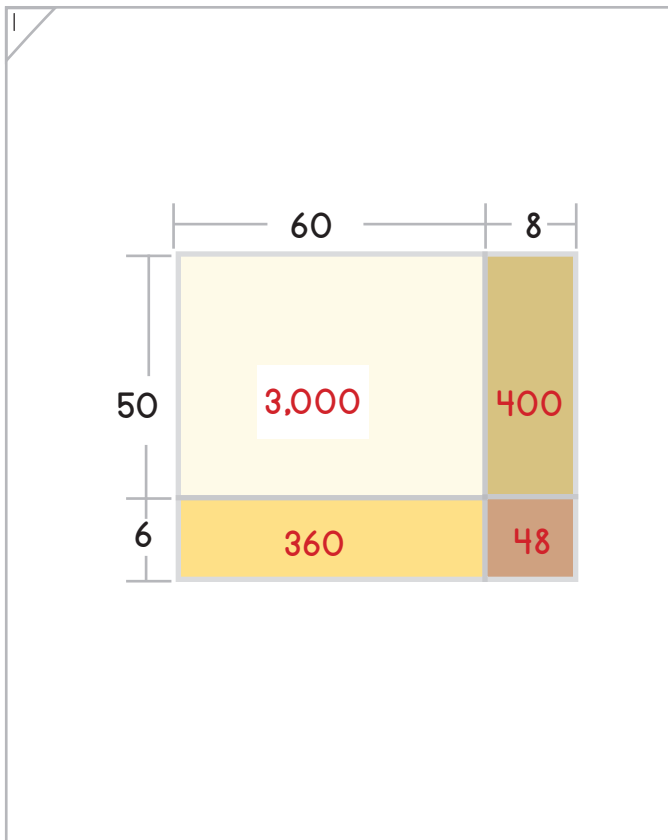
$$80 \times 4 = 320$$

$$6 \times 4 = 24$$

If we add these areas, we can find the total area:

$$(80 + 6) \times (40 + 4) = 3,200 + 240 + 320 + 24 = 3,784$$

ANSWER KEY



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Make each model and number sentence match.

1

	7 6	
×	4 4	
<hr/>		
	2, 8 0 0	70×40
	2 4 0	6×40
	2 8 0	70×4
+	2 4	6×4
<hr/>		
	3, 3 4 4	

ANSWER KEY

2

	3 4	
×	5 7	
<hr/>		
	1, 5 0 0	30×50
	2 0 0	4×50
	2 1 0	30×7
+	2 8	4×7
<hr/>		
	1, 9 3 8	

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Make each model and number sentence match.

1

	8 5																													
×	9 9																													
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">7,</td> <td style="width: 10%; text-align: center;">2</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: right;"><small>80 × 90</small></td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: right;"><small>5 × 90</small></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">7</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> <td></td> <td style="text-align: right;"><small>80 × 9</small></td> <td></td> </tr> <tr> <td style="text-align: right;">+</td> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td></td> <td style="text-align: right;"><small>5 × 9</small></td> <td></td> </tr> </table>				7,	2	0	0		<small>80 × 90</small>		4	5	0		<small>5 × 90</small>			7	2	0		<small>80 × 9</small>		+		4	5		<small>5 × 9</small>	
	7,	2	0	0		<small>80 × 90</small>																								
	4	5	0		<small>5 × 90</small>																									
	7	2	0		<small>80 × 9</small>																									
+		4	5		<small>5 × 9</small>																									
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	8,	4	1	5																										

2

	9 4																													
×	5 7																													
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+		2	8		<small>4 × 7</small>																									
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	5,	3	5	8																										





Symbols

Create a model to solve each number fact.

1

$$\begin{array}{r}
 42 \\
 \times 37 \\
 \hline
 1,200 \quad 40 \times 30 \\
 280 \quad 2 \times 30 \\
 60 \quad 40 \times 7 \\
 14 \quad 2 \times 7 \\
 \hline
 1,554
 \end{array}$$

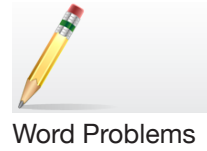
2

$$\begin{array}{r}
 83 \\
 \times 43 \\
 \hline
 3,200 \quad 80 \times 40 \\
 240 \quad 6 \times 40 \\
 240 \quad 80 \times 3 \\
 18 \quad 6 \times 3 \\
 \hline
 3,558
 \end{array}$$

ANSWER KEY

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Read the description.

Keyshawn is reading a book that is 450 pages long. He can read 26 pages every day. If he reads for 17 days, will Keyshawn finish his book?

ANSWER KEY

Your area model:

Expanded mode solution:



$$\begin{array}{r}
 26 \\
 \times 17 \\
 \hline
 200 \quad 20 \times 10 \\
 140 \quad 20 \times 7 \\
 60 \quad 6 \times 10 \\
 42 \quad 6 \times 7 \\
 \hline
 442
 \end{array}$$

Answer: Keyshawn will not finish the book. He will have 8 pages left.

