

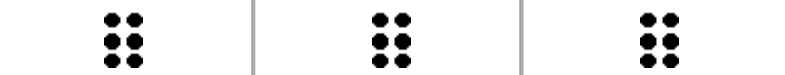


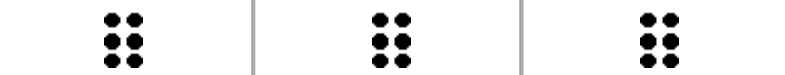


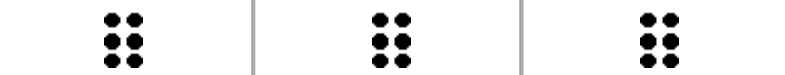



# Multiply in Parts

<p><b>Multiply <math>3 \times 46</math></b></p> <p>Break 46 into two parts: 40 and 6.</p> <p>Then multiply those two parts separately by 3:  <math>3 \times 40</math> is 120, and <math>3 \times 6</math> is 18.</p> <p>Then add these two partial results: <math>120 + 18 = 138</math>.</p>	$3 \times 46$  $3 \times 40$ and $3 \times 6$								
<p>Here is another way of showing the same thing, using ten-bundles.</p>									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"></td> <td style="text-align: right; vertical-align: middle;"><math>3 \times 40 = 120</math></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: right; vertical-align: middle;"><math>3 \times 6 = 18</math></td> </tr> <tr> <td style="text-align: center;"></td> <td></td> </tr> <tr> <td style="text-align: center;"><math>3 \times 46</math></td> <td style="text-align: right; vertical-align: middle;"> <math display="block">\begin{array}{r} 120 \\ + 18 \\ \hline 138 \end{array}</math> </td> </tr> </table>			$3 \times 40 = 120$		$3 \times 6 = 18$			$3 \times 46$	$\begin{array}{r} 120 \\ + 18 \\ \hline 138 \end{array}$
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$3 \times 46$	$\begin{array}{r} 120 \\ + 18 \\ \hline 138 \end{array}$								

Study these examples. Multiply tens and ones separately:

**$8 \times 13$**   
(10 + 3)

$8 \times 10$  and  $8 \times 3$

80 and 24  
= 104

**$5 \times 24$**   
(20 + 4)

$5 \times 20$  and  $5 \times 4$

100 and 20  
= 120

**$7 \times 68$**   
(60 + 8)

$7 \times 60$  and  $7 \times 8$

420 and 56  
= 476

1. Multiply tens and ones separately. Then add to get the final answer.

**a.  $6 \times 27$**   
(20 + 7)

$6 \times \underline{\quad}$  and  $6 \times \underline{\quad}$

$\underline{\quad}$  and  $\underline{\quad}$

=  $\underline{\quad}$

**b.  $5 \times 83$**   
( )

$5 \times \underline{\quad}$  and  $5 \times \underline{\quad}$

$\underline{\quad}$  and  $\underline{\quad}$

=  $\underline{\quad}$

**c.  $9 \times 34$**   
( )

$9 \times \underline{\quad}$  and  $9 \times \underline{\quad}$

$\underline{\quad}$  and  $\underline{\quad}$

=  $\underline{\quad}$