

## Multiplication Strategy

C. Elkins, OK Math and Reading Lady ([cindyelkins.edublogs.org](http://cindyelkins.edublogs.org))

- Allows students to use readily known facts (especially the 5s and 2s)
- Adds a pictorial component which builds on subitizing, number sense, and decomposing of numbers
- Applies the distributive property so students are using multiplication and addition together

$7 \times 6$

•••••	•••••	•••••	•••••	•••••
•••••	•••••			

7 groups of 5 plus  
7 groups of 1

$6 \times 7$

•••••	•••••
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 $\times 7$

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$7 \times 5 = 35$   
 $7 \times 1 = +7$   
 $42$

$6 \times 7$

•••••	•••••	•••••	•••••	•••••
•••••	•••••			

6 groups of 5 plus  
6 groups of 2

$6 \times 7$

$6 \times$ 

•••••	•••••
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$6 \times 5 = 30$   
 $6 \times 2 = +12$   
 $42$

<p style="text-align: center;"><math>4 \times 7</math></p> <p style="text-align: center;"> <math>4 \times</math> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>•••••</td> <td>•••••</td> </tr> </table> </p> <hr style="width: 50%; margin: auto;"/> <p style="text-align: center; color: red;"> <math>4 \times 5 = 20</math>  <math>4 \times 2 = +8</math>  <span style="border: 1px dashed black; padding: 2px;"><math>28</math></span> </p>	•••••	•••••	<p style="text-align: center;"><math>4 \times 7</math></p> <p style="text-align: center;"> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>•••••</td> <td>•••••</td> </tr> </table> <math>\times 7</math> </p> <hr style="width: 50%; margin: auto;"/> <p style="text-align: center; color: blue;"> <math>2 \times 7 = 14</math>  <math>2 \times 7 = +14</math>  <span style="border: 1px solid black; padding: 2px;"><math>28</math></span> </p>	•••••	•••••
•••••	•••••				
•••••	•••••				

$8 \times 4$

$\begin{array}{|c|c|} \hline \cdot\cdot & \cdot\cdot \\ \hline \end{array} \times 4$

$4 \times 5 = 20$

$4 \times 3 = +12$

$\underline{32}$

$8 \times 4$

$8 \times \begin{array}{|c|c|} \hline \cdot\cdot & \cdot\cdot \\ \hline \end{array}$

$8 \times 2 = 16$

$8 \times 2 = +16$

$\underline{32}$

$8 \times 7$

$\begin{array}{|c|c|} \hline \cdot\cdot & \cdot\cdot \\ \hline \end{array} \times 7$

$4 \times 7 = 28$

$4 \times 7 = +28$

$\underline{56}$

$8 \times 7$

$8 \times \begin{array}{|c|c|} \hline \cdot\cdot & \cdot\cdot \\ \hline \end{array}$

$8 \times 5 = 40$

$8 \times 2 = +16$

$\underline{56}$

$12 \times 3$

$\begin{array}{|c|c|} \hline 10 & 2 \\ \hline \end{array} \times 3$

$3 \times 10 = 30$

$3 \times 2 = \underline{6}$

$36$

$15 \times 8$

$\begin{array}{|c|c|} \hline 10 & 5 \\ \hline \end{array} \times 8$

$8 \times 10 = 80$

$8 \times 5 = +40$

$\underline{120}$