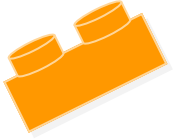


Multiplying with LEGO® Bricks

Brick Grouping Boards



Teaching multiplication can present a challenge for many teachers and frustration to many students. At its core multiplication is simply grouping numbers into sets, then determining the total number of sets in a given number of groups. Teaching multiplication facts from a table doesn't put this concept into a visual perspective for students. That is why I've created these multiplying with LEGO® bricks grouping boards.

Instructions:

- ◆ The best way to utilize the grouping boards is to print them on card stock, then laminate.
- ◆ Have your students use dry erase markers to solve the problems. Then your students can re-use them to practice their grouping skills helping to reinforce their multiplication skills.
- ◆ Have the student place the correct number of bricks into each grouping square. Then solve the problems by counting the number of bricks in the given number of groups.
- ◆ Once your student is showing proficiency in grouping. Then work with them by using a multiplication table to reinforce what they have learning in grouping.

Multiplying with LEGO® Bricks, Brick Grouping Boards
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Multiplying with LEGO® Bricks



Brick Grouping by 1's



Place 1 Brick in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 1 \text{ Brick} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 1 \text{ Brick} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 2's



Place 2 Bricks in each Grouping Square then Solve the Problem.

--

--

2 Bricks
<u>X 1 Group</u>
Bricks

2 Bricks
<u>X 2 Groups</u>
Bricks

--

--

2 Bricks
<u>X 3 Groups</u>
Bricks

2 Bricks
<u>X 4 Groups</u>
Bricks

--

--

2 Bricks
<u>X 5 Groups</u>
Bricks

2 Bricks
<u>X 6 Groups</u>
Bricks

--

--

2 Bricks
<u>X 7 Groups</u>
Bricks

2 Bricks
<u>X 8 Groups</u>
Bricks

--

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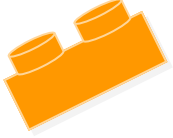
2 Bricks
<u>X 9 Groups</u>
Bricks

2 Bricks
<u>X 10 Groups</u>
Bricks



Multiplying with LEGO® Bricks

Brick Grouping by 3's



Place 3 Bricks in each Grouping Square then Solve the Problem.

--

--

3 Bricks
<u>X 1 Group</u>
Bricks

3 Bricks
<u>X 2 Groups</u>
Bricks

--

--

3 Bricks
<u>X 3 Groups</u>
Bricks

3 Bricks
<u>X 4 Groups</u>
Bricks

--

--

3 Bricks
<u>X 5 Groups</u>
Bricks

3 Bricks
<u>X 6 Groups</u>
Bricks

--

--

3 Bricks
<u>X 7 Groups</u>
Bricks

3 Bricks
<u>X 8 Groups</u>
Bricks

--

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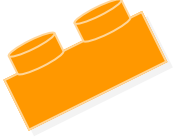
3 Bricks
<u>X 9 Groups</u>
Bricks

3 Bricks
<u>X 10 Groups</u>
Bricks



Multiplying with LEGO® Bricks

Brick Grouping by 4's



Place 4 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 4 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 5's

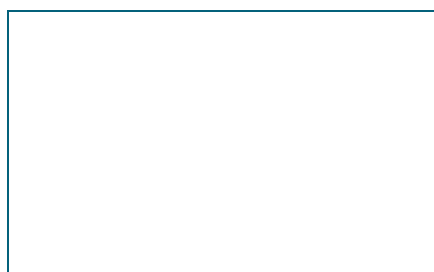
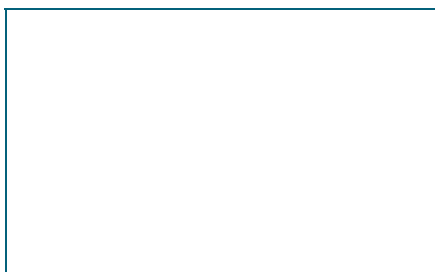


Place 5 Bricks in each Grouping Square then Solve the Problem.



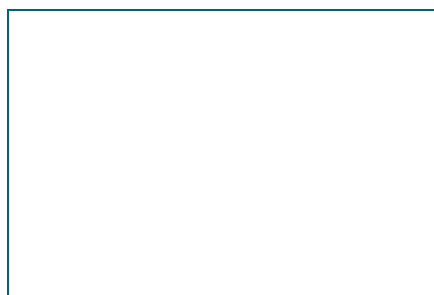
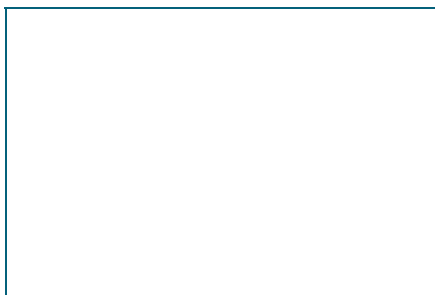
$$\begin{array}{r} 5 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 5 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



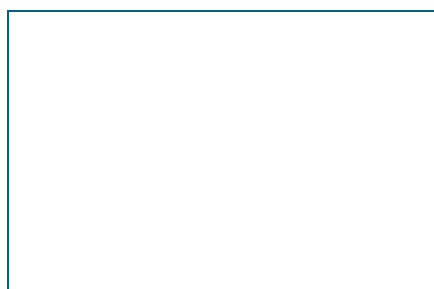
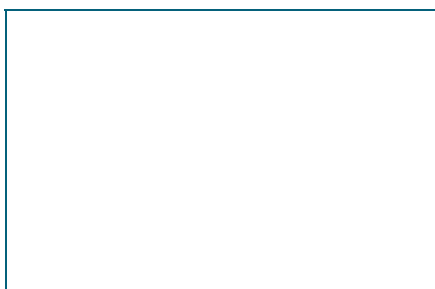
$$\begin{array}{r} 5 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 5 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



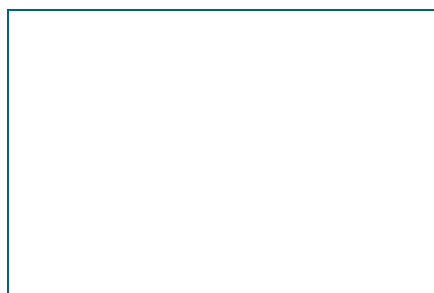
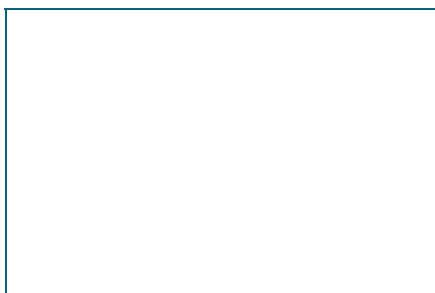
$$\begin{array}{r} 5 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 5 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



$$\begin{array}{r} 5 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 5 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



$$\begin{array}{r} 5 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 5 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 6's



Place 6 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

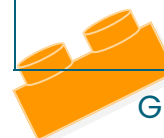
$$\begin{array}{r} 6 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 6 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 7's



Place 7 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 7 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 8's



Place 8 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

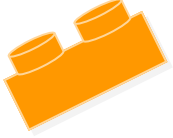
$$\begin{array}{r} 8 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 8 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks

Brick Grouping by 9's



Place 9 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

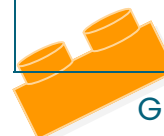
$$\begin{array}{r} 9 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

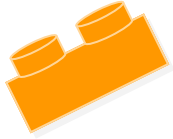
$$\begin{array}{r} 9 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 9 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying with LEGO® Bricks



Brick Grouping by 10's



Place 10 Bricks in each Grouping Square then Solve the Problem.

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 1 \text{ Group} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 2 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 3 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 4 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 5 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

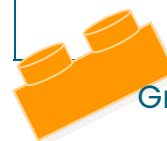
$$\begin{array}{r} 10 \text{ Bricks} \\ \times 6 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 7 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

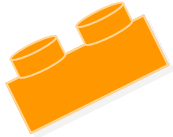
$$\begin{array}{r} 10 \text{ Bricks} \\ \times 8 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 9 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$

$$\begin{array}{r} 10 \text{ Bricks} \\ \times 10 \text{ Groups} \\ \hline \text{Bricks} \end{array}$$



Multiplying LEGO® Bricks

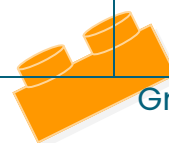


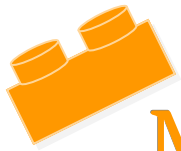
Practice your multiplication facts by filling in the multiplication table.

If needed use the grouping boards.



	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										





Multiplying LEGO® Bricks



	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

