

Learning with Legos Multiplication

Hands On
Arrays

Repeated Addition $\times 7$

BONUS
Skip Counting
Independent Practice

3.OA.1, 3.OA.5, 3.OA.7
Common Core

Commutative
Property
5 Activities !!!



Learning with Legos Multiplication $\times 7$ Common Core Standards



3.OA.1 – Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in a group of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5×7 .

3.OA.5 – Apply properties of operations as strategies to multiply and divide. *Examples:* Find 6×4 by thinking of $6 \times 2 = 12$ and $12 \times 2 = 24$. Find 8×5 by thinking of $8 \times 2 = 16$ and $16 \times 2 = 32$. Find $3 \times 5 = 15$ by thinking of $3 \times 2 = 6$ and $6 \times 2 = 12$. Find 6×9 by thinking of $6 \times 10 = 60$, subtracting one 6, so $60 - 6 = 54$. **Commutative Property of Multiplication:** $3 \times 5 = 15$ can be found by $5 \times 3 = 15$. **Associative Property of Multiplication:** Knowing that $8 \times 5 = 40$ and $5 \times 2 = 10$, find 8×10 as $(8 \times 5) \times 2 = 40 \times 2 = 80$ or $8 \times (5 \times 2) = 8 \times 10 = 80$. **Distributive Property of Multiplication:** $3 \times 10 = 30$ can be found by $3 \times 5 = 15$ and $3 \times 5 = 15$, so $15 + 15 = 30$.

3.OA.7 – Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, find $40 \div 8 = 5$ or $40 \div 5 = 8$) by the end of Grade 3, know from memory all products of two one-digit numbers.



Learning with Legos Multiplication $\times 7$ Common Core



Activity 1: Independent practice. Students will use the Lego Picture Arrays on their activity sheet to do this activity, but they also use the actual Lego pieces if needed. Students will look at the picture array. They will label each side and put a multiplication sign in the top left corner. Then, they will write a repeated addition sentence and a multiplication sentence for each Lego picture array. On their activity sheet, they are reminded that the number of rows (down) is the first factor written and the number in each row (across) is the second factor. The worksheet pages for this activity can be laminated for repeated use, or printed double-sided for use at a math station.

Common Core Math 3.OA.7 only requires students to know all one-digit multiplication facts by practicing them through 12, they are building understanding for the distributive property.

Using blue Lego Pieces, make an array of 7×1

Using yellow Lego Pieces, make an array of 7×2

Using green Lego Pieces, make an array of 7×3

Using red Lego Pieces, make an array of 7×4

Using black Lego Pieces, make an array of 7×5

Using white Lego Pieces, make an array of 7×6

Learning with Legos – Multiplication Arrays $\times 7$

Rows	Columns	Equation
1	7	$7 \times 1 = 7$
2	7	$7 \times 2 = 14$
3	7	$7 \times 3 = 21$
4	7	$7 \times 4 = 28$
5	7	$7 \times 5 = 35$
6	7	$7 \times 6 = 42$
7	7	$7 \times 7 = 49$

Learning with Legos – Multiplication Arrays $\times 7$

Skip Count by 7s three more times.

7	14	21	28	35	42	49	56	63	70	77	84
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Count on 7 each time to get the next number.

7	14	21	28	35	42	49	56	63	70	77	84
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Name _____ Date _____ Learning with Legos – Multiplication $\times 7$ (Answer Key)

Lego Picture Array	Repeated Addition Sentence	Multiplication Sentence
$\begin{array}{c} 9 \\ \times \\ 7 \\ \hline \end{array}$	$7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 63$	$7 \times 9 = 63$
$\begin{array}{c} 3 \\ \times \\ 7 \\ \hline \end{array}$	$7 + 7 + 7 = 21$	$7 \times 3 = 21$
$\begin{array}{c} 5 \\ \times \\ 7 \\ \hline \end{array}$	$7 + 7 + 7 + 7 + 7 = 35$	$7 \times 5 = 35$



Learning with Legos Multiplication $\times 7$ Common Core



Thank you for downloading my Learning with Legos – Multiplication $\times 7$ learning activities. I teach 1st grade math and am always looking for new ways to engage my students in learning their multiplication facts. I will be putting a list of each fact as many students move up, they will have focused, specific practice on the fact they are currently working on. If you like these activities, look for the others in the future. I will continue to add new activities to this collection. I will be releasing them. I will still do consistent timed tests, but am hoping these activities will help them to be able to transfer this knowledge to new learning such as area, perimeter, fractions, division, distributive property, and more. Please email me if you have any feedback or suggestions. In the product, Be sure to check out my other Common Core products, too. *Ultimate Math Strategies of Multiplication Strategies Set*, and *Ultimate Teacher Planners* are a few teacher favorites worth previewing.

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