

Dimensions Math
Grade 2 Letter Home
Chapter 9 Multiplication and Division of 3 and 4

Home Connection

Previously in chapter 7, your child learned the multiplication and division facts of 2, 5, and 10. In this chapter your child will continue to formalize their knowledge of multiplication and division facts of 3 and 4. Your child will see that the answer is the same regardless of which number comes first, the number of groups or the number in each group.



$4 + 4 + 4 = 12$ | $3 \times 4 = 12$ $3 + 3 + 3 + 3 = 12$ | $4 \times 3 = 12$

$3 \times 4 = 4 \times 3$ We can use rows or columns.

They will learn that they can find their division facts by thinking of a related multiplication fact.

$3 \times 9 = 27$
 $27 \div 3 = 9$

The lessons also reiterate the two ideas of division as sharing and grouping, and that it does not matter if the divisor represents the number of groups or the number in each group, the quotient is the same.

<p>Divide 20 counters into groups of 4. $? \times 4 = 20$</p> <p>$20 \div 4 = 5$</p> <p>There are 5 groups.</p> 	<p>Divide 20 counters into 4 groups. $4 \times ? = 20$</p> <p>$20 \div 4 = 5$</p> <p>There are 5 counters in each group.</p> 
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Your child should continue to practice multiplication and divisions facts of 3 and 4 until they know them from memory.

Your child will learn the remaining 16 facts for multiplication and division by 6, 7, 8 and 9 in Dimensions Math 3A.

What can we do at home?

- Explore dividing a collection of items into groups of 3 or 4. Try arranging them in rows and columns and identify multiplication and division problems.

For example, 4 rows and 3 columns:

- $3 \times 4 = 12$ which is also 1×4 plus 2×4
- $4 \times 3 = 12$ which is also 2×3 plus 2×3
- 12 divided by 3 and 12 divided by 4
- $3 \times \underline{\quad} = 12$ and $4 \times \underline{\quad} = 12$

Then try other combination such as 3×6 , 3×7 , 3×8 , 3×9 , 4×6 , 4×7 , 4×8 , and 4×9

- Check out Multiplication and Division practice activities on the TCA website: <https://www.tcatitans.org/Domain/200>

Capture! is a fun way to practice multiplication

Multiplication Squares is a good review game for multiplication of 2, 5 and 10

Leftovers is a hands-on activity to practice division