

Grade 3 Properties of Multiplication Lesson 3: Commutative Property of Multiplication

Rationale: Today's lesson teaches students to use the Commutative property to solve a multiplication problem.

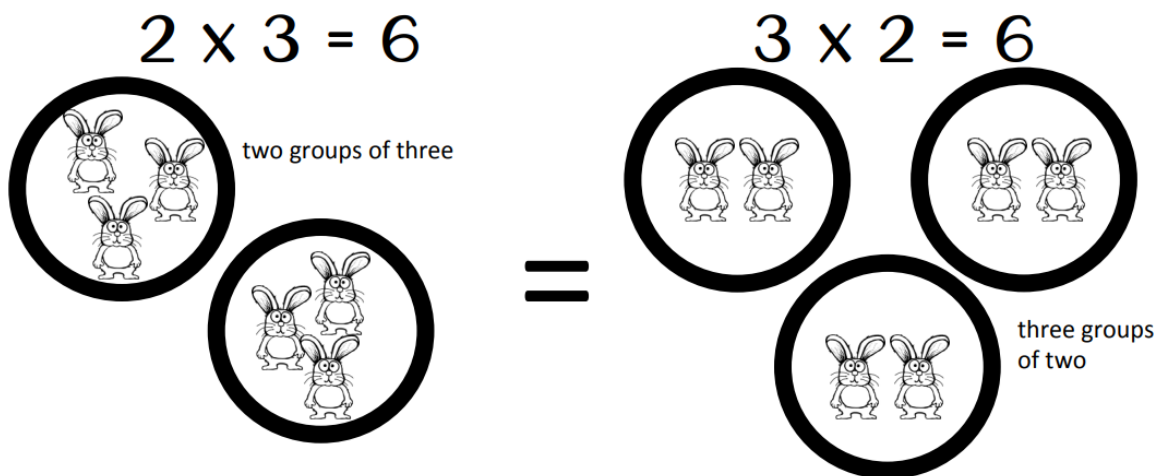
Objective: I can multiply my factors in any order and my products will stay the same.

Vocabulary: commutative property, multiplication, product

Materials: Six Foam squares for groups or partners, dry erase boards, Copy of the Must Do worksheet

Lesson:

I. Project and explain to students, "When we multiply, we can multiply the factors in any order and the product will remain the same." Have students look at the picture below and model it using foam squares. Have students build a 2×3 array and then a 3×2 array. Have students explain why the commutative property works.



2. Project: Tell students, "Sometimes we refer to the Commutative Property as TURNAROUND FACTS. Have students work on dry erase boards to solve.

Directions: Write the turnaround fact for each problem, then solve!

$3 \times 4 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$5 \times 4 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$6 \times 3 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
$2 \times 7 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$6 \times 5 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$	$10 \times 2 = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

3. Must Do