Identifying commutative and associative properties worksheet

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Commutative Property of Multiplication

Name_____

Solve the following equations.

1. $4 \times 3 = 3 \times 4$
   __ = __

2. $2 \times 3 = 3 \times 2$
   __ = __

3. $5 \times 6 = 6 \times 5$
   __ = __

4. $7 \times 4 = 4 \times 7$
   __ = __

5. $6 \times 8 = 8 \times 6$
   __ = __

6. $9 \times 6 = 6 \times 9$
   __ = __

7. $3 \times 9 = 9 \times 3$
   __ = __

8. $7 \times 3 = 3 \times 7$
   __ = __

9. $2 \times 3 = 3 \times 2$
   __ = __

10. $8 \times 9 = 9 \times 8$
    __ = __

11. $6 \times 4 = 4 \times 6$
    __ = __

12. $9 \times 5 = 5 \times 9$
    __ = __

13. $4 \times 4 = 4 \times 4$
    __ = __

14. $8 \times 7 = 7 \times 8$
    __ = __

Property	Addition	Multiplication
Commutative Property	You can add in any order $a+b=b+a$ $2+4=4+2=6$	You can multiply in any order $a \times b = b \times a$ $3 \times 4 = 4 \times 3 = 12$
Associative Property	When you add, you can group the numbers in any combination $a+(b+c)=(a+b)+c$ $1+(3+4)=(1+3)+4$	When you multiply, you can group the numbers in any combination $a \times (b \times c) = (a \times b) \times c$ $2 \times (3 \times 5) = (2 \times 3) \times 5$
Identity Property	The sum of zero and any number is the number $a+0=a$ $4+0=4$	The product of 1 and any number is the number $a \times 1 = a$ $3 \times 1 = 3$

Associative Property

Use the associative property to determine if the equations below are equal or not equal.

$$(8+5) + 4 = 8 + (5+4)$$

A. $7 + (5+3)$ _____ $(7+5) + 3$

B. $4 + (9+2)$ _____ $(4+3) + 2$

C. $(1+1) + 6$ _____ $1 + (1+6)$

D. $(2+4) + 8$ _____ $2 + (8+4)$

E. $3 + (6+7)$ _____ $(3+6) + 6$

F. $(9+8) + 4$ _____ $(8+4) + 9$

G. $3 + (3+4)$ _____ $(4+3) + 1$

H. $(7+8) + 2$ _____ $(8+2) + 5$

I. $5 + (2+2)$ _____ $(5+2) + 1$

J. $(3+3) + 5$ _____ $(3+5) + 3$

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ARITHMETIC PROPERTIES

$a + b = b + a$
$a \cdot b = b \cdot a$ — COMMUTATIVE PROPERTIES

$a + (b + c) = (a + b) + c$
$(a \cdot b) \cdot c = a \cdot (b \cdot c)$ — ASSOCIATIVE PROPERTIES

$a \cdot (b + c) = a \cdot b + a \cdot c$ DISTRIBUTIVE PROPERTIES

$a + 0 = a$ $a \cdot 1 = a$ IDENTITY ELEMENT

$a + (-a) = 0$ $a \cdot \frac{1}{a} = 1$ INVERSE ELEMENT

What are commutative and associative properties. What is associative commutative and identity property.

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The concept of how to identify operation properties that exist is reviewed. A sample problem is solved. Six practice problems are provided. Students will demonstrate their proficiency with these skills. Ten problems are provided. This can be used with you entire group of students as a whole. Three problems are provided, and space is included for students to copy the correct answer when given. This worksheet explains how to identify the commutative, associative, and distributive properties. A sample problem is solved. Students will identify the commutative, associative, and distributive properties that exist in a series of computations. A sample problem is solved and two practice problems are provided. You will examine a series of expressions and identify the presence of either the commutative, associative, or distributive property. Ten problems are provided. You will get more experience learning which properties apply to different series of operations. Ten problems are provided. We work through all of these concepts in a series of light exercises. Eight problems are provided. Take your time to identify what is present in each of these expressions or equations. Three problems are provided. This worksheet explains how to rewrite an equation using the commutative property. A sample problem is solved, and two practice problems are provided. Students will rewrite equations using their knowledge of these applications. Ten problems are provided. You get more experience rewriting equations. Ten problems are provided. The concept that is explored in this unit goes to the next level. A sample problem is solved. Six practice problems are provided. Students will demonstrate their proficiency with rewriting equations. Ten problems are provided. We get an idea of where you stand with this skill in this section. Three problems are provided, and space is included for students to copy the correct answer when given. In this worksheet, your youngster will work with the distibutive property in equations using all four operations. Part of understanding the properties of mathematics is identifying them when you see them. This worksheet aims to help your student do just that, by presenting her with different equations. She'll need to determine if it is using the commutative property or the associative property. It is helpful for practicing 3rd grade Common Core Standards for Operations and Algebraic Thinking, although it is also useful for other grades.Get WorksheetTopics: Associative Property, Commutative Property, PropertiesGrades: Number and Operations (NCTM)Understand meanings of operations and how they relate to one another.Understand and use properties of operations, such as the distributivity of multiplication over addition.Compute fluently and make reasonable estimates.Develop fluency in adding, subtracting, multiplying, and dividing whole numbers.Select appropriate methods and tools for computing with whole numbers from among mental computation, estimation, calculators, and paper and pencil according to the context and nature of the computation and use the selected method or tools.Algebra (NCTM)Represent and analyze mathematical situations and structures using algebraic symbols.Identify such properties as commutativity, associativity, and distributivity and use them to compute with whole numbers.Use mathematical models to represent and understand quantitative relationships.Model problem situations with objects and use representations such as graphs, tables, and equations to draw conclusions.Grade 4 Curriculum Focal Points (NCTM)Number and Operations and Algebra: Developing quick recall of multiplication facts and related division facts and fluency with whole number multiplicationStudents use understandings of multiplication to develop quick recall of the basic multiplication facts and related division facts. They apply their understanding of models for multiplication (i.e., equal-sized groups, arrays, area models, equal intervals on the number line), place value, and properties of operations (in particular, the distributive property) as they develop, discuss, and use efficient, accurate, and generalizable methods to multiply multi-digit whole numbers. They select appropriate methods and apply them accurately to estimate products or calculate them mentally, depending on the context and numbers involved. They develop fluency with efficient procedures, including the standard algorithm, for multiplying whole numbers, understand why the procedures work (on the basis of place value and properties of operations), and use them to solve problems.

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