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Regents Exam Questions A.N.1: Identifying Properties
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Page 1

Name: _____

A.N.1: Identifying Properties: Identify and apply the properties of real numbers (closure, commutative, associative, distributive, identity, inverse)

1 Which property is illustrated by the equation $ax + ay = a(x + y)$?
  1) associative
  2) commutative
  3) distributive
  4) identity

2 The statement $2 + 0 = 2$ is an example of the use of which property of real numbers?
  1) associative
  2) additive identity
  3) additive inverse
  4) distributive

3 Tori computes the value of $8 \cdot 95$ in her head by thinking $8(100 - 5) = 8 \times 100 - 8 \times 5$. Which number property is she using?
  1) associative
  2) distributive
  3) commutative
  4) closure

4 Which property of real numbers is illustrated by the equation $-\sqrt{3} + \sqrt{3} = 0$?
  1) additive identity
  2) commutative property of addition
  3) associative property of addition
  4) additive inverse

5 Which property of real numbers is illustrated by the equation $52 + (27 + 36) = (52 + 27) + 36$?
  1) commutative property
  2) associative property
  3) distributive property
  4) identity property of addition

6 The equation $*(\Delta + \heartsuit) = *\Delta + *\heartsuit$ is an example of the
  1) associative law
  2) commutative law
  3) distributive law
  4) transitive law

7 While solving the equation $4(x + 2) = 28$, Becca wrote $4x + 8 = 28$. Which property did she use?
  1) distributive
  2) associative
  3) commutative
  4) identity

8 If M and A represent integers, $M + A = A + M$ is an example of which property?
  1) commutative
  2) associative
  3) distributive
  4) closure

Associative Property of Addition
Draw a line between the matching equations.

$(8 + 6) + 5$	$(12 + 8) + 37$
$7 + (3 + 4)$	$7 + (6 + 25)$
$9 + (4 + 1)$	$5 + 6 + 8$
$(54 + 83) + 66$	$4 + (9 + 1)$
$12 + (8 + 37)$	$76 + (84 + 13)$
$(96 + 4) + 23$	$(3 + 7) + 4$
$(7 + 6) + 25$	$(54 + 66) + 83$
$84 + (13 + 76)$	$96 + (4 + 23)$

Commutative Property of Multiplication

name

When we multiply any two numbers, we get the same product regardless of the order
$A \cdot B = B \cdot A$

$8 \times 5 = \underline{} \times 8$ $6 \times 7 = 7 \times \underline{}$ $10 \times 12 = 12 \times \underline{}$

$2 \times 9 = 9 \times \underline{}$ $3 \times 4 = \underline{} \times 3$ $7 \times 8 = 8 \times \underline{}$

$8 \times 3 = \underline{} \times 8$ $1 \times 7 = 7 \times \underline{}$ $9 \times 12 = 12 \times \underline{}$

$7 \times 9 = 9 \times \underline{}$ $3 \times 9 = \underline{} \times 3$ $11 \times 8 = 8 \times \underline{}$

$8 \times 4 = \underline{} \times 8$ $11 \times 7 = 7 \times \underline{}$ $5 \times 4 = \underline{} \times 5$

$10 \times \underline{} = 11 \times 10$ $\underline{} \times 4 = 4 \times 3$ $2 \times \underline{} = 9 \times 2$

$8 \times 12 = \underline{} \times 8$ $1 \times 7 = 7 \times \underline{}$ $5 \times 7 = \underline{} \times 5$

$10 \times \underline{} = 12 \times 10$ $\underline{} \times 4 = 4 \times 11$ $2 \times \underline{} = 10 \times 2$

$6 \times \underline{} = 7 \times 6$ $\underline{} \times 3 = 3 \times 9$ $\underline{} \times 8 = 8 \times 12$

$5 \times 7 = \underline{} \times \underline{}$ $3 \times 8 = \underline{} \times \underline{}$ $6 \times 2 = \underline{} \times \underline{}$

$6 \times 3 = \underline{} \times \underline{}$ $11 \times 9 = \underline{} \times \underline{}$ $9 \times 12 = \underline{} \times \underline{}$

$\underline{} \times \underline{} = 4 \times 6$ $\underline{} \times \underline{} = 3 \times 11$ $\underline{} \times \underline{} = 8 \times 10$

$\underline{} \times \underline{} = 3 \times 5$ $\underline{} \times \underline{} = 12 \times 11$ $\underline{} \times \underline{} = 4 \times 12$

Commutative Property

The **commutative property** of multiplication means that when you multiply two numbers, it doesn't matter which one comes first; the product is the same.

For example: $2 \times 6 = 6 \times 2$ $2 \times 6 = 12$ and $6 \times 2 = 12$

Complete each number sentence.

① $3 \times 2 = 2 \times$ _____ $4 \times 5 =$ _____ $\times 4$ $2 \times 7 = 7 \times$ _____

② $8 \times 1 = 1 \times$ _____ $0 \times 3 =$ _____ $\times 0$ $3 \times 4 = 4 \times$ _____

Fill in the blanks to complete each number sentence. The first one has been done for you.

③ _5_ $\times 2 = 2 \times 5$ ④ _____ $\times 3 = 3 \times 8$ ⑤ $1 \times$ _____ $= 9 \times 1$

$5 \times 2 =$ __10__ $8 \times 3 =$ _____ $1 \times 9 =$ _____

$2 \times$ _5_ $=$ __10__ $3 \times$ _____ $=$ _____ $9 \times$ _____ $=$ _____

⑥ $9 \times 2 = 2 \times$ _____   ⑦ $4 \times 6 =$ _____ $\times 4$ ⑧ _____ $\times 3 = 3 \times 7$

_____ $\times$ _____ $=$ _____   _____ $\times$ _____ $=$ _____   _____ $\times$ _____ $=$ _____

_____ $\times$ _____ $=$ _____   _____ $\times$ _____ $=$ _____   _____ $\times$ _____ $=$ _____

⑨ Olivia has 3 shelves in her room. On each shelf there are 8 stuffed animals. How many stuffed animals does Olivia have altogether? Write the problem, and find the answer.

_____

⑩ What if Olivia had 8 shelves in her room and 3 stuffed animals on each shelf. Would the answer be the same? Why or why not?

_____
_____

Multiplication 7

Multiplication: Identity and Zero Property

3.OA.1 / 3.OA.5

Identity Property: When you multiply any number by 1, the product is the other number.

$a \times 1 = a$ $8 \times 1 = 8$ $1 \times 21 = 21$

Zero Property: When you multiply any number by 0, the product is zero.

$a \times 0 = 0$ $9 \times 0 = 0$ $0 \times 13 = 0$

Directions: Use the **Identity Property** (property of one) to figure out the missing number in each sentence.

1. $7 \times 1 =$ _____   2. _____ $\times 1 = 2$ 3. $1 \times$ _____ $= 6$

4. $10 \times$ _____ $= 10$ 5. _____ $\times 66 = 66$ 6. $904 \times 1 =$ _____

Directions: Use the **zero property** to find the missing number in the number sentences.

7. $3 \times 0 =$ _____   8. _____ $\times 1 = 0$ 9. $8 \times$ _____ $= 0$

10. $63 \times$ _____ $= 0$ 11. _____ $\times 26 = 0$ 12. $105 \times 0 =$ _____

Directions: Use the **identity** and **zero property** to solve the word problem below.

13. Melissa had 5 friends. She gave 1 cookie to each of her friends. How many cookies did she give to her friends in all?

Draw a picture to help you solve.
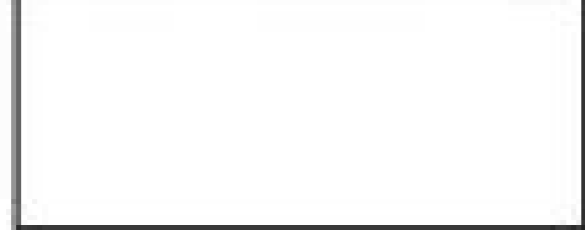
Find the product if the multiplier is 12 and the multiplier is 5. With Cuemath, you will learn visually and be surprised with the results. What Is the Switching Property of Multiplication for Numbers 7 and 6? ³ For multiplication, the formula of the commutative property A is expressed as (A B) = (B Ã A). The commutative property of multiplication declares that the product of two or more numbers remains the same, even if the order of the numbers is changed. Now, we invert the order of the numbers and check, (- 2) Ã 4 = -8. We replace the values of P, Q in the form of a/b. Solution: We know that the commutative property for multiplication declares that the change in the order of the multiplication does not change the value of the product. The commutative property of multiplication and addition is applicable Addition and multiplication. How do I find the Switching Property of Multiplication? We know that (A B) = (BA). Thus, the commutative property of multiplication is applicable to integers. What will be the product if any number is multiplied by zero?6. This shows that even after we change the order of numbers 7 and 4, the sum remains the same. 1 = 618(v) 315 0 = ?(vi) 826 Ã ? Your learner should decide whether the equation is using the commutative or associative property on this worksheet. Now we reverse the order of numbers and find the product of numbers. When replacing the values in (PQ) = (QP) we get, (7/8 5/2) = (5/29 Halloween EditionTwo Truths and One Lie worksheet: Halloween Edition I will make your students talk about matteration and share their ideas and knowledge about different properties. If the product of the left side values (LHS) and the product of the right side values (RHS) are equal, then it can be said that the given expression follows the terms o ecenamrep soremºÃn sod otudorp o euq amrifa oÊ§Ãacilpitlum ad avitaicossa edadeirporp A ?)vi(815 = iÃ 997)ii(? = 1 Ã Ã ÃÃ 614)i(:sanucal sa ahcneerP .3 021 ÃÃ)? 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Ã (10 Ã   ³   ÃÃ A. For example, (7 + 4) = (4 + 7) = 11. Ã B = B   Ã See Answer > Go to Slide Go to Slide Go to Slide Big Learning in Teaching ©dio Using Simple Clues By preaching in repeated learning. You are likely to miss out on concepts. Here, we can see that the product of the Numbers remains the same even when the order of the Numbers has changed. Then we will override the values given in this ³ and check. Solution: According to the commutative property of the multiplication ³, A Ã B = B PDF worksheets meet the learning requirements of children in grade 3 through grade 6. Replace the value for A = 8 and B = 9. This shows that the given expression follows the commutative multiplication property. What Is an Example of a Multiplication Switching Property? The commutative law of multiplication states that the product of two or more numbers remains the same, regardless of the order of the operands. Example: 5Ã 3   Ã For example, (7Ã4) = (4 Ã48. What Is the Multiplication Switching Property for µ? Example 3: Which of the express µ follows the commutative property of multiplication? For example, edop ⁹ÃcoV ?sorietni arap oÊ§Ãacilpitlum ad avitatumoc edadeirporp a ©Ã lauQ .ele a lev¡Ãcilpa ¡Ãres oÊ§Ãacilpitlum ad avitatumoc edadeirporp a euq somebas ,01 a 7 a 9 uo 8 a 6 ,omoc siat sepÃsserpxe somet es ,euq acifingis ossI .otudorp o meretla oÊÃn soremºÃn sod medro a euq artsom oÊ§Ãacilpitlum arap avitacinumoc edadeirporp alumr³ÃF A alumr³ÃF oÊ§Ãacilpitlum ed edadeirporP evitatumocC ?sianoicar soremºÃn ed oÊ§Ãacilpitlum ad avitatumoc edadeirporp a ©Ã lauQ .sepÃ§Ãauqe oÊ§Ãacilpitlum a reverce omoc e oÊ§Ãacilpitlum ad avitatumoc edadeirporp a ranisne a raduja arap sezirtam rasu oÊ§Ãacilpitlum sassE .27 = 8 a 9 = 9 a 8 sometbo alumr³Ãf an serolav sesse odniutitsbus mE .oÊ§Ãartbus e oÊÃsivid a odacilpa res edop oÊÃn ellE .)P ?Ã Q(=)Q A P(omoc asserpxe res edop sorietni arap oÊ§Ãacilpitlum ed avitacinumoc edadeirporp A(= 7 A 53)i(5 a)?+ 03 + 001(= 5 A 431)i(: ocnarb me soÊ§Ãapse so rehcne ?= 9-12)i(v( )?a ?+ 02 + .0 mu b euq me ,b / a ed amrof me oÊÃs Q ,P ed serolav so ,iuqA .amsem a res a auniteoc otudorp od oremºÃn o ed medro a somadum s³Ãn odnauq omsem ,euq artsom euqrop oÊ§Ãacilpitlum ad avitatumoc edadeirporp a euges adad oÊÃsserpxe a ,otnatrop ,siam e .;ovitacilpitlum edaditnedi e asrevni ;etnelaviuqe oÊ§Ãaralced racifitnedi ;avitubirtsid edadeirporp ;oÊ§Ãacilpitlum ad avitaicossa e avitatumoc edadeirporp m⁹Ãtnoc anig¡Ãp atsen sahlinalp sedadeirporP levÃmirpmi oÊ§Ãacilpitlum A sahlinalp oÊ§Ãacilpitlum ed siam arap iuqa euqilc ?(=)021 A 61(A 513)vi( )2 A .42 =)6 a 4(=)4 A 6(?(Ã .amsem o res a auniteoc otudorp o ,soremºÃn sod medro a rahlarabme ed sioped omsem ,euq rev somedoP .sezirtam sa arap sadasu sanuloc e sahnil ed olavretni o ranoiceles edop ⁹ÃcoV ? + 002(= 8 Ã 632)iii(7 a)5 + .2/5 e 8/7 = Q = P ,es ,olpmexe roP .sotsuc ed ervil etnemtulosba oÊÃs sahlinalp sassed samuglA .odad oÊÃsserpxe an sotsopsid oÊÃtse sele euq me odom oa es-erefer soremºÃn sod mif a ,iuqA .9- e 3- = Q = P ed rolav o riutitsbus son Clear to reset, or All to select all the number. Related Articles Example 1: Fill in the missing number using the multiplication commutative property: 6 Ã 4 =   Ã 6. Let us organize the data number according to the general composition of the commutative law that is© (A Ã B) = (B Ã A). The associative property of multiplication is expressed as© (A Ã B) Ã C = A Ã (B Ã C). The commutative property of multiplying by fractions can be expressed as (P Ã Q) = (Q Ã P). Multiplication and Addition Commutative Property The commutative property© is applicable to multiplication and addition. In 315 To 6, what number is the© multiplier and what number is multiplicand©79. © What is the difference between the associative and commutative property of multiplication? Example 2: Shimon's mother asked him if p Ã q = q Ã p is© an example of the commutative property of multiplication. These multiplication worksheets are suitable for 3rd degree, 4th degree and 5th degree. The commutative property of multiplication states that if 'a' and 'b' are two number, then a Ã b = b Ã a. It reaches 6 Ã 5 Ã 8 Ã 7 = 1680. The commutative property of multiplication tells us that by multiplying number, the order of multiplication does not matter (3 Ã 4 = 4 Ã x 3). When replacing the values in the fum, we get (-3 Ã -9) = (-9 Ã -3) = 27. Here A = 7 and B = 6. Or you want to know more information about Matemática Just Matemática. - ?)5. A By multiplying 3 number, this allows us to multiply any two of the number as a first step, and then multiply the product by the third number, regardless of the order. For example, 3 Ã 4 = 4 To 3 = 12. Tips on the commutative good of multiplication: Here are some important points related to the commutative good of multiplication. Can you help Shimon find out if it's© commutative or not? For addition The commutative law for addition is expressed as© a + B = B + A. So what is missing ? ? 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