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**Open**

Algebra 1

Name \_\_\_\_\_

## Distributive Property REVIEW

Date \_\_\_\_\_

Simplify each expression.

1)  $3(5n + 2) - 4n$

2)  $8 + 7(4 + 2b)$

3)  $2(1 - 9v) - 9v$

4)  $8x - 7(x + 7)$

5)  $-8(6 - 7n) + 5n$

6)  $4 - 4(-6a - 7)$

7)  $-4(-20 + 7k) + 6(-9 - k)$

8)  $-17(1 + 16p) + 3(15p - 10)$

9)  $-14(7x - 9) - 19(x - 3)$

10)  $7(n + 20) + 13(1 - 20n)$

11)  $16(2 - 7m) - 8(5m + 3)$

12)  $-4(1 - r) - 11(9r - 6)$

13)  $5(x - 1) - 15(x + 17)$

14)  $-10(1 - 4n) + 8(n + 15)$

15)  $5(3b + 6) - 2(1 - 2b)$

16)  $-16(-19v + 8) + 7(-20v - 11)$

17)  $14(18 + 11x) + 3(11 - 20x)$

18)  $13(13 + 14n) - (14 + 12n)$

19)  $3(-12a + 17) - 4(18a + 2)$

20)  $4(1 + 17k) - 7(k + 16)$

21)  $-13(17 - 8x) - 18(-2x + 16)$

22)  $-8(-15x - 18) - 5(-19 + 6x)$

23)  $-13(-13k - 9) - (k + 19)$

24)  $-11(n - 12) - 12(-5n - 3)$

25)  $-3(1 + 3p) - 16(1 + p)$

# Properties of Exponents

## RULE

1.  $a^m a^n = a^{m+n}$

2.  $(a^m)^n = a^{mn}$

3.  $(ab)^n = a^n b^n$

4.  $a^{-n} = 1/a^n$

5.  $(a/b)^m = a^m/b^m$

6.  $(a/b)^{-n} = (b/a)^n$

7.  $a^0 = 1$

8.  $a^m/a^n = a^{m-n}$

\* unless  $a = 0$ 

## PROOF

$2^2 \cdot 2^3 = 2^{2+3} = 32$

$(2^3)^2 = 2^{3 \cdot 2} = 64$

$(2 \cdot 3)^2 = (2^2)(3^2) = 36$

$2^{-2} = 1/2^2 = 1/4$

$(1/2)^2 = 1^2/2^2 = 1/4$

$(2/4)^{-2} = (4/2)^2 = 4$

Any number<sup>0</sup> = 1

$2^3/2^2 = 2^{3-2} = 2^1 = 2$

Key

**Distributive Property:**  
**Make it Simple!**

Rewrite each of the following equations using the distributive property. Write the correct answer for each problem. Remember to show your work.

Example:  $7 \times 32 = \underline{224}$        $(7 \times 30) + (7 \times 2)$   
 $\phantom{7 \times 32 = } \underline{224}$        $210 + 14$   
 $\phantom{7 \times 32 = } \underline{224}$

*Actual student answers may vary. Examples of correct answers.*

A)  $6 \times 55 = \underline{330}$        $(6 \times 50) + (6 \times 5)$   
 $\phantom{6 \times 55 = } \underline{330}$        $300 + 30$   
 $\phantom{6 \times 55 = } \underline{330}$

B)  $9 \times 74 = \underline{666}$        $(9 \times 70) + (9 \times 4)$   
 $\phantom{9 \times 74 = } \underline{666}$        $630 + 36$   
 $\phantom{9 \times 74 = } \underline{666}$

C)  $12 \times 140 = \underline{1680}$        $(12 \times 100) + (12 \times 40)$   
 $\phantom{12 \times 140 = } \underline{1680}$        $1200 + 480$   
 $\phantom{12 \times 140 = } \underline{1680}$

D)  $8 \times 112 = \underline{896}$        $(8 \times 110) + (8 \times 2)$   
 $\phantom{8 \times 112 = } \underline{896}$        $880 + 16$   
 $\phantom{8 \times 112 = } \underline{896}$

E)  $30 \times 156 = \underline{530}$        $(30 \times 150) + (30 \times 6)$   
 $\phantom{30 \times 156 = } \underline{530}$        $450 + 180$   
 $\phantom{30 \times 156 = } \underline{530}$

Evaluating Expressions (A)

Evaluate each expression using the value given.

1.  $c - c + 4$   
( $c = 5$ )
6.  $z^2 + z$   
( $z = 1$ )
11.  $z + (8 - z)$   
( $z = 1$ )
2.  $u + 4u$   
( $u = 6$ )
7.  $7b + b$   
( $b = 2$ )
12.  $6 - x + 6$   
( $x = 7$ )
3.  $2b - b$   
( $b = 9$ )
8.  $(10 - 9) \cdot c$   
( $c = 10$ )
13.  $(10 + y) \div y$   
( $y = 9$ )
4.  $u \div u^2$   
( $u = 2$ )
9.  $u + 4 + 8$   
( $u = 2$ )
14.  $z \cdot z + z$   
( $z = 2$ )
5.  $5 + 3 - c$   
( $c = 8$ )
10.  $10 + 2 - x$   
( $x = 6$ )
15.  $c(6 - 2)$   
( $c = 4$ )



Bradford School  
Math  
4<sup>th</sup> grade 2020

Home class 19: Multiplication - Distributive property

1. Solve the following exercises using the property

**129 x 3 =**

$(\square + \square + \square) \times 3$   
 $\square \times 3 + \square \times 3 + \square \times 3$   
 $\square + \square + \square$   
 $\square$

**5 x 205 =**

$5 \times (\square + \square + \square)$   
 $5 \times \square + 5 \times \square + 5 \times \square$   
 $\square + \square + \square$   
 $\square$

**218 x 7 =**

$(\square + \square + \square) \times 7$   
 $\square \times 7 + \square \times 7 + \square \times 7$   
 $\square + \square + \square$   
 $\square$

**9 x 143 =**

$9 \times (\square + \square + \square)$   
 $9 \times \square + 9 \times \square + 9 \times \square$   
 $\square + \square + \square$   
 $\square$

II. Write **yes/no** if the exercise is showing the distributive property.

- a.   $412 \times 8 = [400 \times 8] + 12$
- b.   $245 \times 6 = 200 \times 6 + 40 \times 6 + 5 \times 6$
- c.   $4 \times 532 = 4 \times 50 + 4 \times 30 + 4 \times 2$
- d.   $5 \times 422 = 5 \times 400 + 5 \times 20 + 5 \times 2$

To get the PDF worksheet, simply press the botÃ³n titled "Create PDF" or "Make PDF Worksheet." Books 8-10 extend coverage to the real number system. Teachers can also identify students in later grades who could benefit from the program. Participating students are assigned a username and password with which they can access the program from school or home 24 hours a day. You can find more information about the program here: Home Worksheets Factoring/Distributive Property With this worksheet generator, you can make customizable worksheets for distributive property and factoring. The greatest number of students' struggles with higher order mathematics can be attributed to gaps in knowledge of the basic mathematical facts. High school students were evaluated and randomly placed in an intervention group using Fastt Math or in a control group receiving traditional instruction. Fastt Math uses Fluidity and Automaticity through the Teaching System with Technological Systems' Gic. The creators of Fastt Math had this motivation in mind when they developed the intervention software in mathematics. Basic instructions for worksheets Each worksheet is generated randomly and is therefore unique. Word problems relate algebra to family situations, helping students understand abstract concepts. "Try it again! To get a different worksheet using the same options: PDF format: return to this page and press the botÃ³n again. The generator includes very simple problems with linear expressions. An experiment involving students using MatemÃ¡ticas Fastt versus two other groups that traditional instruction found that students who used the technology achieved an average of 12-19 mathematical facts per day, most students delayed in mathematics can develop fluency," reports Scholastic Research. The facts of the study are facts that students will work in the following day. A review page allows students to "preview" the central facts for the day lesson. => More Information These worksheets are specially designed for pre-Algebra courses and Algebra 1 (grades 6-9). A typical lesson lasts between 10 and 15 minutes. We hope to adhere more types of problems later. In it, the skills and knowledge that students of public schools must acquire for each grade are outlined. The new educators' panels allow teachers to follow up on progress towards the Common Core objectives. Based on the results, the evaluators recommended continue the program. Sometimes the worksheet generated is not exactly what you want. Scholastic Education developed Fastt Math to help students close these gaps by developing mathematical fluency through technology. What is Fastt Math and for who is? Technology motivates students. After four weeks, the students were tested again. Focus facts are facts that students are working on mastering. Additional Title and Instructions (HTML allowed) Key to Algebra offers a unique and proven way to introduce the word to your students. You can generate the worksheets in html or PDF format, both are easy to print. This has the advantage that you can save the directly from your browser (choose File "Save") and then edit it in Word or other word processor. Lessons are divided into three groups: Quick facts are facts that students have mastered, which means that students take an average of 1.25 seconds to respond accurately. Teachers monitor students' progress and generate reports using the Scholastic Achievement Manager.Meeting Common Standards In 2009, a task force led by then-Governor of Arizona, Janet Napolitano, helped launch the State Common Core Standards. Students develop understanding by intuitively solving equations and inequalities before introducing formal solutions. To get the worksheet in html format, press the button "View in browser" or "Make html worksheet". Students begin their study of algebra in Books 1-4 using only integers. Students in the sixth grade showed the greatest improvement, with the intervention group mastering an average of 24.35 mathematical facts compared to 7.46 facts mastered by the control group. You can find more information and change your preferences here Page 2 This site uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our site, show you personalized content and ads, analyze website traffic and understand where our visitors are coming from. Games, such as STRETCH-To-Go, are specifically designed to meet Common Core standards, according to Scholastic Media News Room.Proven effectivenessFastt Math gets results. The standards set by Common Core required that students be quick and accurate in all four operations (mathematics) to be successful in mathematics. ojabed ojabed.stcaF sucoF omoc stcaF tsaf tnat rasiver arap sodaÆsoid sodartemonorc sogeuj soirav ertne rigele nedupe setnaidutse sol.nÆccel anu ratelpmoc IA. 2102 ne noitareneG txeN htaM tsaF ojudortni citsalohcS sdradnatS eroC nommoC noc rilpmuc a setnaidutse sol a raduya araNoitareneG txeN htaM tsaF.roirepus Find links to make some common type work sheets, intended for grades 6-8. Books 5-7 introduce numbers and rational expressions. HTML format: Simply update the page of the worksheet in the window of your browser. Tecnologia also seems to help with the retention. Students in the FASTT mathematics group were tried again after four months and only lost six facts. An evaluation of FASTT mathematics performed by EMU students seems to support Scholastic's results. The reason for the program is based on the idea that humans are limited in the amount of information they can preserve to solve problems. The response key is automatically generated and placed on the second page page. Archive.

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