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Distributive Property

Simplify each expression using the distributive property. Then find and circle your answer at the bottom of the page.

- | | | |
|-------------------|-------------------|-------------------|
| 1) $3(x + 4)$ | 2) $5(x + 2)$ | 3) $4(x + 8)$ |
| 4) $4(2x + 3)$ | 5) $2(3x + 1)$ | 6) $7(3x + 5)$ |
| 7) $6(x - 4)$ | 8) $9(x - 3)$ | 9) $4(x - 2)$ |
| 10) $-3(x + 5)$ | 11) $-5(x + 4)$ | 12) $-6(x + 1)$ |
| 13) $-2(3x + 2)$ | 14) $-3(4x + 3)$ | 15) $-4(5x + 2)$ |
| 16) $4(-2x - 4)$ | 17) $3(-3x - 5)$ | 18) $2(-2x - 4)$ |
| 19) $-4(x - 6)$ | 20) $-2(3x - 4)$ | 21) $4(-3x - 2)$ |
| 22) $-5(-3x + 7)$ | 23) $-2(-3x - 4)$ | 24) $-3(-4x - 2)$ |

Answers

- | | | | |
|------------|------------|------------|------------|
| $-9x - 15$ | $8x + 12$ | $-8x - 4$ | $5x + 10$ |
| $6x - 24$ | $15x - 35$ | $-6x - 6$ | $4x + 24$ |
| $3x + 12$ | $-4x + 24$ | $-20x - 8$ | $6x + 2$ |
| $12x + 6$ | $-4x - 8$ | $-12x - 8$ | $-5x - 20$ |
| $-3x - 15$ | $21x + 35$ | $6x + 8$ | $9x - 27$ |
| $-8x - 16$ | $4x - 8$ | $-6x + 8$ | $-12x - 8$ |

Name _____ Date _____

Distributive Property Worksheet

Directions: Solve each equation.

- [1] $7(3x / 1) = -1$
- [2] $-9(-3 - 8x) = -3$
- [3] $1(7x - 1) = 6$
- [4] $-7(-7x + 9) = 5$
- [5] $9(6x + 3) = 5$
- [6] $-4(2x x - 5) = 9$
- [7] $-1(1x - 5) = 9$
- [8] $6(-7x + 8) = 3$
- [9] $7(-1 - 8x) = 8$
- [10] $6(-5x - 5) = -3$
- [11] $-9(6x x - 8) = -6$
- [12] $10(-9 / 10x) = 8$

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Name _____ Date _____

Distributive Property of Multiplication

Directions: Solve each multiplication problem by using the distributive property of multiplication.

Example: $5 \times 4 = 20$ $\xrightarrow{(5 \times 3) + (5 \times 1)}$
 $(15) + (5) = 20$

1. $7 \times 5 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
2. $9 \times 4 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
3. $6 \times 6 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
4. $8 \times 7 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
5. $4 \times 3 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
6. $5 \times 8 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$
7. $10 \times 9 = \underline{\hspace{2cm}}$ $(\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
 $(\underline{\hspace{1cm}}) + (\underline{\hspace{1cm}}) = \underline{\hspace{2cm}}$

Name _____ Date _____

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 $3 \times 2 = 2 \times \underline{\quad}$ $4 \times 5 = \underline{\quad} \times 4$ $2 \times 7 = 7 \times \underline{\quad}$
 ② $8 \times 1 = 1 \times \underline{\quad}$ $0 \times 3 = \underline{\quad} \times 0$ $3 \times 4 = 4 \times \underline{\quad}$

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

- ③ $\underline{5} \times 2 = 2 \times 5$ ④ $\underline{\quad} \times 3 = 3 \times 8$ ⑤ $1 \times \underline{\quad} = 9 \times 1$
 $5 \times 2 = \underline{10}$ $8 \times 3 = \underline{\quad}$ $1 \times 9 = \underline{\quad}$
 $2 \times \underline{5} = \underline{10}$ $3 \times \underline{\quad} = \underline{\quad}$ $9 \times \underline{\quad} = \underline{\quad}$
 ⑥ $9 \times 2 = 2 \times \underline{\quad}$ ⑦ $4 \times 6 = \underline{\quad} \times 4$ ⑧ $\underline{\quad} \times 3 = 3 \times 7$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$
 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

- 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

Solving Simple Equations (A)

Name: _____ Date: _____

Determine the value of each unknown.

1. $-2 - h = -9$ 2. $o + -9 = -7$
 3. $-5 - d = -1$ 4. $-7 - e = -1$
 5. $z + -1 = 0$ 6. $7 - i = 5$
 7. $r + -1 = 1$ 8. $f + -9 = -18$
 9. $5 - j = 3$ 10. $-3 - l = -2$
 11. $b + -7 = -9$ 12. $-3 - n = 0$
 13. $-12 - p = -8$ 14. $-7 - k = 2$
 15. $q + -7 = 1$ 16. $a + -3 = 0$
 17. $w + 9 = 16$ 18. $v + 5 = 8$
 19. $-4 - u = 4$ 20. $-3 - m = -3$

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Each page requires the student to write their own multiplication story (word problem) and then represent their equation in multiple ways. Included in this file: On one page, students must write a multiplication story, represent their word problem with an equation, a drawing (with equal groups, etc.). *****Veteran's Day Card-Printable by The Always Adapting Classroom This resource is perfect for primary students! Students can trace and write their own message on the card. Note-Print double-sided to easily fold into a card! Terms of Use: All products are intended for personal classroom use only. You may not copy or distribute any page in this document. Provide credit back to my store with any social media mentions! 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The crayons were used from "Teacher Designs" Colorful Crayon Clipart: many fruits can you name in Romanian? US spelling used in title. Each set contains 3 cards: a situation matched with two different expressions that are both equivalent. Please download this latest packet, for free! I'm a teacher/author and offer Language Arts, Science, Social Studies, American History, Novel Packets, Grammar, Back to School, Holidays, Writing, Poetry, Spelling, Teacher forms Page 3 These 124 creative activities can be used with any books or stories! Your students can choose from a variety of activities that include written response, art, poetry, music, hands on, written, technology and more. Thank you!! Interested in joining collaborative boards? This is great practice for third, fourth, and even fifth grade multiplication. They are a great addition to my other product "The Big Game of Multiplication" which is a fun football-themed practice for distributive property. Included: Teacher Notes- 7 Practice Pages- 2 Distributive Matching Pages- Math Journal "Understanding Distributive Property" sheet 3rd Grade Common Core Distributive Property Worksheet by A 3rd grade common core aligned worksheet on Distributive Property. This worksheet can be used after teaching these properties. Multiplying Polynomials by These guided notes will teach students to multiply monomials by binomials and trinomials using three methods: area models, algebra tiles, and the distributive property, followed by examples for independent practice. Types: Page 7 Generate Equivalent Expressions - 6th Grade Algebra by *LIMITED TIME FREEBIE! This product includes 2 worksheets on Equivalent Expressions. Distribute at the beginning of the school year and use daily throughout the year. Lesson ends with writing an equation for the perimeter of a rectangle. There are 9 sets of matching cards. 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