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## Distributive property expressions worksheet

## Distributive Property



$$\begin{aligned} & 5 + 15 \\ & 5 \times 1 + 5 \times 3 \\ & 5(1 + 3) \end{aligned}$$



Rewrite each expression using the distributive property in order to simplify.



$$5(6 + 2)$$

$$5 \cdot 6 + 5 \cdot 2$$

$$30 + 10 = 40$$

$$5(6 + 2)$$

$$5(8) = 40$$



$$2(x - 4)$$

$$2 \cdot x - 2 \cdot 4$$

$$2x - 8$$

These are NOT like terms, so we can not combine them.

## Distributive Property

The student will break the multiplication problem into two separate, smaller problems.

$$\begin{array}{r}
 63 \\
 \times 92 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 63 \\
 \times 90 \\
 \hline
 5,670
 \end{array}
 +
 \begin{array}{r}
 63 \\
 \times 2 \\
 \hline
 126
 \end{array}$$

$$\begin{array}{r}
 5,670 \\
 + 126 \\
 \hline
 5,796
 \end{array}$$

The student only needs to multiply 63 x 2. They have learned that when multiplying by "tensides," they can simply add the number of ones necessary to the end.  
 For example:  
 $8 \times 4 = 32$   
 $8 \times 40 = 320$   
 $80 \times 4 = 3,200$

|                                               |                                        |
|-----------------------------------------------|----------------------------------------|
| 17. $20\% \times 20$                          | 26. $2000 \times 20 \times 100$        |
| 18. $2000 \times 1000$                        | 27. $200^2 \times 200^2$               |
| 19. $10^2 \times 10^3$                        | 28. $2000 \times 1000 \times 10^3$     |
| 20. $200 \times 20 \times 100$                | 29. $200 \times 1000 \times 10^3$      |
| 21. $100 \times 20$                           | 30. $100 \times 10^3 \times 20$        |
| 22. $20 \times 1000$                          | 31. $10 \times 10 \times 10 \times 10$ |
| 23. $2000 \times 1000 \times 100 \times 1000$ | 32. $100 \times 10$                    |
| 24. $10^3 \times 10^3 \times 10^3 \times 10$  | 33. $2000 \times 1000$                 |

| Property                                      | Description                                                                                                           | Example                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Commutative Property of Addition</b>       | Changing the order of addends does not change the sum                                                                 | $2 + 5 = 5 + 2$                                 |
| <b>Commutative Property of Multiplication</b> | Changing the order of the factors does not change the product.                                                        | $(-3) \times 8 = 8 \times (-3)$                 |
| <b>Associative Property of Addition</b>       | Changing the grouping of the addends does not change the sum.                                                         | $(-3 + 5) + 2 = -3 + (5 + 2)$                   |
| <b>Associative Property of Multiplication</b> | Changing the grouping of the factors does not change the product.                                                     | $(2 \times 4) \times 6 = 2 \times (4 \times 6)$ |
| <b>Distributive Property</b>                  | Multiplying a sum by a number is the same as multiplying each addend by that number and then adding the two products. | $-3(4 + 5) = -12 - 15$                          |
| <b>Identity Property for Addition</b>         | Adding 0 and any number does not change the value of the number.                                                      | $-7 + 0 = -7$                                   |
| <b>Identity Property for Multiplication</b>   | Multiplying 1 and any number does not change the value of the number.                                                 | $-8 \times 1 = -8$                              |
| <b>Inverse Property of Addition</b>           | The sum of any integer and its additive inverse is 0.                                                                 | $6 + (-6) = 0$                                  |
| <b>Zero Property of Multiplication</b>        | The product of 0 and any number is 0.                                                                                 | $-5 \times 0 = 0$                               |

Distributive property equivalent expressions worksheet. Simplifying algebraic expressions using distributive property worksheets. Writing equivalent expressions using distributive property worksheets. Distributive property expressions worksheet pdf. Simplifying expressions with distributive property worksheet. Simplifying expressions with distributive property worksheet answers. Simplifying expressions with distributive property worksheet pdf. Factoring/distributive property worksheet use the distributive property to simplify the expressions.

[illegible]



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