

Name: _____ Algebra 9 Unit 1 Lesson 4

The Distributive Property

DO NOW ~ Monday 9/23

Simplify by combining like terms.

1) $-12x - 4 + 9x + 10$

$$-3x + 6$$

2) $-4g - 8 + 4 - 3g$

$$-7g - 4$$



Classwork

Expand by using the Distributive Property.

$$4(x + 5)$$

$$4(x) + 4(5)$$
$$4x + 20$$

$$3(2x - 7)$$

$$6x - 21$$

$$-5(x + 4)$$

$$-5x - 20$$

$$-6(-2x - 3)$$

$$12x + 18$$

DO NOW ~ Tuesday 9/24

Use the Distributive Property to expand.

1) $4(3z - 2)$

$$12z - 8$$

2) $3(-2x - 5)$

$$-6x - 15$$



Classwork

Use the Distributive Property to expand.

$$-9(2x + 4)$$

$$-18x - 36$$

$$-(3x + 2)$$

$$-3x - 2$$

$$10(-x + 7)$$

$$-10x + 70$$

$$-3(-2y - 5)$$

$$6y + 15$$

DO NOW ~ Wednesday 9/25

Simplify by using the Distributive Property.

$$-10(4y - 6)$$

$$-40y + 60$$



Classwork

Use the Distributive Property to simplify.

$$-3(2x + 3y - 2)$$

$$-6x - 9y + 6$$

$$4(2y^2 + 6y - 8)$$

$$8y^2 + 24y - 32$$

$$-5(3a - 2b - c)$$

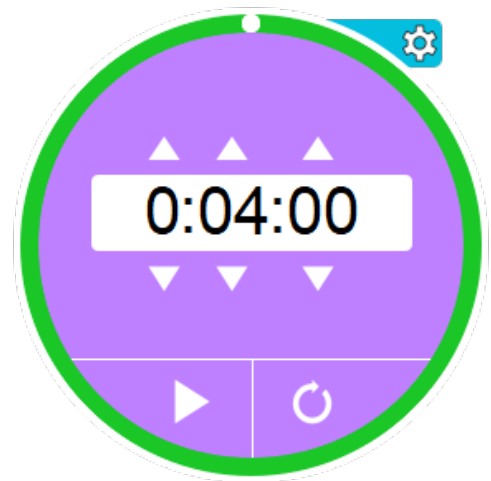
$$-15a + 10b + 5c$$

$$-7b^3 - 5b^2 + 1$$

$$-7b^3 + 5b^2 - 1$$

To earn your full participation point for the Do Now be sure to have completed all of the following by the time is up:

- 1) Be in your seat
- 2) Take out your calculator
- 3) Have last night's homework out
- 4) Complete the do now



DO NOW ~ Thursday 9/26

Use the Distributive Property to expand.

$$3(2w - 6x + 2)$$

$$6w - 18x + 6$$



Classwork

Use the Distributive Property to expand.

$$-2(x^3 - 3x^2 + 1)$$

$$-2x^3 + 6x^2 - 2$$

$$4(2a - 6b + 4)$$

$$8a - 24b + 16$$

$$-7(4t^4 - t^2 + 1)$$

$$-28t^4 + 7t^2 - 7$$

$$5(4x - y + 7)$$

$$20x - 5y + 35$$

Mrs. Ferreri's Station ~ The Distributive Property with THREE Terms*Expand by using the Distributive Property.*

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

2) $2(b^2 - 2b + 4)$

3) $2(3n^2 - 2n + 3)$

4) $2(4x^2 - 5x + 1)$

5) $3(n^2 + 2n + 3)$

6) $4(4x^2 - 2x - 2)$

7) $4(2b^2 - 4b + 4)$

8) $2(3a^2 - 5a - 5)$

9) $4(3r^2 + r + 4)$

10) $3(3a^2 + 3a + 1)$

11) $4(5n^2 + 5n + 5)$

12) $3(4m^2 - m + 2)$

13) $5(p^2 + 5p + 1)$

14) $5(5v^2 - v + 2)$

15) $2(4n^2 - 3n + 1)$

16) $2(3x^2 - 2x + 4)$

17) $3(5m^2 - 5m + 5)$

18) $2(5r^2 + r - 1)$

19) $4(4k^2 - 4k - 3)$

20) $3(4p^2 - 4p + 2)$

Continue onto the next page.

1) $4(4r^2 - 3r + 6)$

2) $-4(8v^2 + 5v - 8)$

3) $-6(-8m^2 - 4m + 4)$

4) $-4(-4a^2 + 8a + 5)$

5) $-6(7n^2 + 8n - 7)$

6) $-6(-2m^2 - 4m - 1)$

7) $2(-7k^2 + 3k + 2)$

8) $-2(3k^2 - 7k + 2)$

9) $4(-8n^2 + 6n + 4)$

10) $2(-6p^2 - 2p - 2)$

11) $-2(8x^2 - 2x - 8)$

12) $-4(x^2 - x + 6)$

13) $-2(-n^2 - 8n - 6)$

14) $-4(p^2 + 4p + 5)$

15) $-7(8x^2 + 6x - 8)$

16) $6(7x^2 + x + 5)$

17) $-3(-7v^2 + 6v + 6)$

18) $-3(-3r^2 - r + 4)$

19) $4(-2n^2 + 8n - 7)$

20) $-(-3r^2 + 4r + 7)$

Computer Station ~ *Delta Math*

Log into Delta Math and complete the “The Distributive Property” assignment.

Mrs. Kennedy's Station ~ Number Cube Activity, Tic Tac Toe & MATHO

Roll all three number cubes. Place each number cube in a rectangle and then distribute.



Continue onto the next page.

TIC TAC TOE

You may use the WHITE BOARDS to show your work.

How to Play: You need one Tic Tac Toe sheet per pair of people. Each person chooses a symbol to represent them (an X, an O, a star, a heart, etc.). Players take turns choosing an expression to simplify and if they simplify it correctly they get that box and they put their symbol in it. Both players simplify the expression to make sure that the answer is correct. Each player is trying to get 5 of their symbol in a row like traditional Tic Tac Toe.

$4(x + 2)$	$5(2k - 2)$	$4(-y + 5)$	$-2(y + 5)$	$2(10x + 2)$
$2(11m + 4)$	$-2(x + 4)$	$7(-2x + 1)$	$-4(-2x + 1)$	$-3(5x + 5)$
$4(y - 1)$	$3(3x + 5)$	$5(2x - 1)$	$3(v + 2)$	$2(-6x + 4)$
$-3(5v - 4)$	$3(2y + 5)$	$4(x + 3)$	$2(9a + 3)$	$3(y + 2)$
$5(2m + 7)$	$-4(y - 3)$	$-3(x - 1)$	$4(2k + 1)$	$2(2m + 2)$

Continue onto next page.

BINGO

Directions:

- 1) *Player 1 – Rolls both number cubes and simplifies that problem on their whiteboard. The other player solves it too to check to see if their opponent is right or not. Teacher must check.*
- 2) *If player 1 is correct, he or she may mark that box. If he or she is wrong, they must leave it blank and it is now player 2's turn.*
- 3) *Play until the time is up. Whichever player has the most marked boxes in a row, WINS!*

	A	B	C	D	E
1	$-3(x + 3)$	$-2(x - 5)$	$2x - 4 + 7x$	$-(x + 8)$	$x + x - 2 + 3$
2	$4x + 5x - 10x$	$-8(10x + 11)$	$(x - 5)(2)$	$-4(x + 12)$	$\frac{1}{2}(4x + 6)$
3	$\frac{1}{3}(x - 6)$	$5 - 10 + 3x$	$6x + 2x - 3$	$-5(x - 10)$	$2 - 6x + 18$
4	$7(-2x - 1)$	$\frac{1}{8}(8x + 16)$	$-3(-x + 6)$	$4(5x + 3)$	$-2x - 2x + 6x$
5	$-(x - 4)$	$(x - 3)(6)$	$-\frac{1}{2}(6x + 8)$	$x - 10 + x$	$-12(x - 3)$
6	$\frac{1}{4}(8x - 4)$	$7 - 3x + 1 - x$	$-4(x + 3)$	$8(x - 8)$	$-x + 4 - 5 + 2x$

Independent Station ~ Combining Like Terms**1) Finish Mrs. Ferreri's Station from the last packet.****2) Complete the practice problems below.**

$$2c - 7c + 1 - 4$$

$$2w + 4 - 3 - 6w$$

$$7b + 4 - 8b - 9$$

$$-3 + 2s + 6s - 8$$

$$2d - 8d + 4$$

$$1 - 8x + 11 + 2x$$

$$-2z - 9 + 1$$

$$12n + 3 - 2n - 7$$

$$4x - 1 + 1 + 2x$$

$$7x - 9 - 9x + 9$$

$$2q + 4 - 8q + 3$$

$$-3 + 7v - 8v - 4$$

$$b - 1 + 7b$$

$$6x - 9 + 7x + 2$$

$$-10a + 6 - 3$$

$$1 - 3a + a - 10$$

$$9x - 10 + x - 3$$

$$10 - 9n + 9n - 1$$

$$1 + 5r - 7$$

$$2x - 10 + 8x$$

$$-10a + 10a$$

$$-7x + 10 - 10x$$

$$7v - 3 + v + 9$$

$$9 + r + 10r$$

Homework ~ Monday 9/23*Use the Distributive Property.*

$$-8(3x + 4)$$

$$7(2x + 3)$$

$$-4(-2c + 3)$$

$$2(3 - x)$$

Homework ~ Tuesday 10/24*Use the Distributive Property.*

$$-9(2x - 3y + 4)$$

$$4(-3d - 5f + 5)$$

$$-3(x^3 - 2x^2 + x)$$

$$2(5y^2 - 7y - 4)$$

Homework ~ Wednesday 9/25*Use the Distributive Property.*

$$-8(4a + 3b - c)$$

$$-4(2d^3 - 3d^2 + 1)$$

$$2(3x + 5y - z^2)$$

$$-(2f - 5g + 2a)$$

Homework ~ Thursday 9/26*Use the Distributive Property.*

$$-(2a + 3b - 4c)$$

$$2(3x^2 - 2x + 4)$$

$$-8(10x + 11)$$

$$-6(f - 3g + 2a)$$