

Name: _____ Algebra 9 Unit 1 Lesson 4

Combining Like Terms

DO NOW ~ Monday 9/16

Evaluate the following expression when $x = -1$ and $y = 5$.

$$\frac{21}{-3} = \textcircled{-7}$$

$$\frac{(4x + y^2)}{7 - 10} = \frac{(4(-1) + (5)^2)}{7 - 10}$$



Classwork

Simplify by combining like terms.

$$y + y + y + y + y + y$$

$$4y + 2y$$

$$6y$$

$$\boxed{-8x} + \boxed{1} - 6x$$

$$\boxed{-14x + 1}$$

$$\boxed{9z} + \boxed{3} - \boxed{10z} + \boxed{1}$$

$$\boxed{-1z + 4}$$

$$13m - \boxed{9} - \boxed{5} + m^2$$

$$\boxed{m^2 + 13m - 14}$$

DO NOW ~ Tuesday 9/17

Simplify by combining like terms.

$$-7b + 5 - 3b - 4$$

$$-10b + 1$$



Classwork

Simplify by combining like terms.

$$\frac{1}{2}c - \frac{3}{4}c + 5$$

$$-\frac{1}{4}c + 5$$

$$1x^2 + 3 + 4x^2 - 7$$

$$5x^2 - 4$$

$$8 - x^3 + 6x^3 + 4x$$

$$5x^3 + 4x + 8$$

$$6x + 7x^2 - 4x^2 - 4x$$

$$3x^2 + 2x$$

DO NOW ~ Wednesday 9/18

Simplify by combining like terms.

$$7h + 9 + 11h - 1 + h^2$$

$$h^2 - 4h + 8$$

$$-4h + 8 + h^2$$



Classwork

Simplify by combining like terms.

$$-2x - 4x + 9 - 4x$$

$$-10x + 9$$

$$7b^3 + 8 - 3b^3 - 4 - 1$$

$$4b^3 + 3$$

$$-2c^3 + 8c - c^3 - 1$$

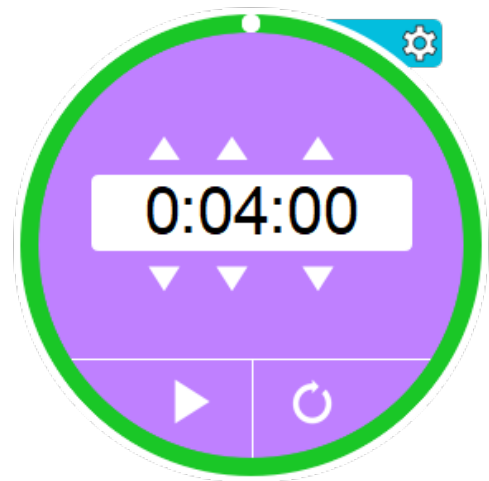
$$-3c^3 + 8c - 1$$

$$4x + x^2 - 2 + 10$$

$$x^2 + 4x + 8$$

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 9/19

Simplify by combining like terms.

$$6w^2 + 11w + 8w^2 - 15w$$

$$14w^2 - 4w$$



Classwork

Simplify by combining like terms.

$$5x^3 - 2x^2 + 14x + 7x^2 + 3x - 11$$

$$5x^3 + 5x^2 + 17x - 11$$

$$x^2 - 4x + 7 - 2x$$

$$x^2 - 6x + 7$$

$$6 - 9p + 11 - 2p + p - 8 + r$$

$$-10p + r + 9$$

$$3y^2 + 8y - 5 - y^2 + 14$$

$$2y^2 + 8y + 9$$

Mrs. Ferreri’s Station ~ Combining Like Terms Math Lib

- 1) _____ = _____
- 2) _____ = _____
- 3) _____ = _____
- 4) _____ = _____
- 5) _____ = _____
- 6) _____ = _____
- 7) _____ = _____
- 8) _____ = _____
- 9) _____ = _____
- 10) _____ = _____

.....

(1) _____ was (2) _____
to be (3) _____ with
(4) _____ on (5) _____ at
(6) _____ in (7) _____ wearing
(8) _____ while (9) _____ because they
wanted (10) _____!

Continue onto the next page.

13. $4x - 6x$

14. $7y + 5y - 5y$

15. $4r + 4y - 8$

16. $3m + 4n - 6n$

17. $4g + 6g - 3g$

18. $15f - 5 + 2f$

19. $13x - 7y + 4x$

20. $5x^2 - 4x + 9x^2$

21. $4b + 7a - 8$

34. $12 + 9x - 6x - 19$

35. $y^2 + 3y^2 - 6y + 4y^2$

36. $2 - 5t + 8 + 5t - 8$

22. $13r + 5s - 2r$

23. $a + a + 3b + b$

24. $3y - 4y^2 + 3y$

26. $2w + 4w^2 - 5w^3$

27. $c^3 + 4c - 4c^3$

28. $a - 3b + 5c + 4a$

29. $2x + 7x - 6x + 8$

30. $11q + 5p - 9q + 7p$

31. $3mn + 4m - 2mn$

32. $0t - 9t + 6u + 4u^5$

33. $11d + 5f - 21d + 5 - 8$

Computer Station ~ Delta Math

If you were absent follow the directions below to log into Google Classroom and Delta Math.

1) Log into the computer and go to Google Classroom. Join the Algebra 9 class by entering the code: **jeaod6g**

2) Click on the Delta Math link. Click "Create Account" and then "Student" by entering the teacher code: **654562**

Once you are logged into Delta Math, complete the "Combine Like Terms" assignment.

Mrs. Kennedy’s Station ~ Combining Like Terms Penguin Activity

Simplify by combining like terms. Write each expression in a box below to show your work.

Continue onto the next page.

Complete the combining like terms color by number activity. The picture is on the NEXT page.

1 Simplify: $3x + 4 + 2x + 7$ Color this answer pink.	2 Simplify: $3z + 8x + 4z$ Color this answer yellow.	3 Simplify: $x + 2 + x + 2 + x$ Color this answer blue.	4 Simplify: $40x - x$ Color this answer yellow.	5 Simplify: $4x^2 + 8x + 9x^2$ Color this answer green.
6 Simplify: $25x + 17y - 3x - 2y$ Color this answer purple.	7 Simplify: $14 + 6z - 10 + 9z$ Color this answer pink.	8 Simplify: $7x^2 + 4x - x^2$ Color this answer green.	9 Simplify: $36y - 8y + 15 - 13$ Color this answer blue.	10 Simplify: $8y + 15x + 3y - 12x - 3x$ Color this answer yellow.
11 Simplify: $35x + 7z - 4z - 15x - 3z$ Color this answer purple.	12 Simplify: $3x^2 + 10x + 2x^2$ Color this answer yellow.	13 Simplify: $12z + 9x + 5z + 3x$ Color this answer pink.	14 Simplify: $31y - 20y + 24y$ Color this answer green.	15 Simplify: $27y + 13x + 2y + 6x$ Color this answer blue.
16 Simplify: $16 + 18y - 13 + 5y$ Color this answer pink.	17 Simplify: $20 + 13x - 5 + 5x + 9$ Color this answer purple.	18 Simplify: $13y + 14x + 15y + 16x$ Color this answer blue.	19 Simplify: $12x^2 + 5x - 7x^2$ Color this answer green.	20 Simplify: $9z + 15 + 10z - 8$ Color this answer blue.



Independent Station ~ Scavenger Hunt

Use the space below to complete the Scavenger Hunt that is placed around the classroom.

Continue onto the next page.

When have you finished the scavenger hunt, complete the practice problems below.

Use substitution to evaluate.

$$m^2 + 4 - p; \text{ use } m = -5, \text{ and } p = -3$$

$$\frac{m}{3} + mp; \text{ use } m = -3, \text{ and } p = -5$$

$$(-3) + x + z - z; \text{ use } x = -6, \text{ and } z = -3$$

$$y - (-6y - z); \text{ use } y = -6, \text{ and } z = 3$$

$$\frac{q + r^2}{2}; \text{ use } q = 5, \text{ and } r = -3$$

$$y - z - \frac{z}{5}; \text{ use } y = 1, \text{ and } z = -5$$

Continue onto the next page.

$$k(j - (k - j)); \text{ use } j = 3, \text{ and } k = -5$$

$$z - 6 + y + x; \text{ use } x = 4, y = -3, \text{ and } z = 1$$

$$p^3 + 10 + m; \text{ use } m = 9, \text{ and } p = 3$$

$$5 - \frac{-16}{r} - 3x \quad \text{use } r = -8 \text{ and } x = -9$$

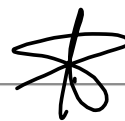
$$-6 + \frac{z}{7} + 5n \quad \text{use } z = 21 \text{ and } n = 6$$

$$(-1 - 10r)^2, \text{ when } r = 5$$

$$\frac{-7}{2v}, \text{ when } v = 6$$

$$-4(8x - 8), \text{ when } x = 1$$

Homework ~ Monday 9/16

*Simplify each expression.*

$$15f - 5 + 2f$$

$$2w + 4w^2 - 5w^3$$

Evaluate. Show the substitution.

$$\frac{(-7) - 7}{-7} \cdot (-10)$$

$$6p - 8 - r + r; \text{ use } p = 8, \text{ and } r = 7$$

Homework ~ Tuesday 9/17

Simplify each expression.

$$y^2 + 3y^2 - 6y + 4y^2$$

$$3y - 4y^2 + 3y$$

Evaluate. Show the substitution.

$$\frac{6}{8 - 10 + 1 - (-4)}$$

$$c + 2c - (a + b); \text{ use } a = -1, b = 8, \text{ and } c = 4$$

Homework ~ Wednesday 9/18

Simplify each expression.

$$7 + 10x + 2 - 6x$$

$$m - 10 - 10m$$

$$1 + 6^2 + 3 - (5 + 1)$$

Evaluate. Show the substitution.

$$\frac{r(q+1)}{6}; \text{ use } q = 3, \text{ and } r = 3$$

Homework ~ Wednesday 9/18

Simplify each expression.

$$20 + 13x - 5 + 5x + 9$$

$$8y + 15x + 3y - 12x - 3x$$

$$8 - 2 + (3.5 - 4)$$

Evaluate. Show the substitution.

$$\frac{-7}{2v}, \text{ when } v = 6$$