

Name: _____ Algebra 9 Unit 1 Test Review

Review for the UNIT 1 TEST on Thursday October 10th

DO NOW ~ Monday 10/7

Expand using the Distributive Property then simplify by combining like terms.

$$10x - 3(x + 4)$$

$$10x - 3x - 12$$

$$7x - 12$$



Classwork

Simplify.

$$4 - \frac{14 - 3 - 6}{3 + 4 - 2}$$

$$4 - \frac{5}{5}$$

$$4 - 1 = 3$$

Evaluate.

$$\frac{5 - (x - z)}{3}; \text{ use } x = 5, \text{ and } z = 3$$

$$\frac{5 - (5 - 3)}{3} = \frac{3}{3} = 1$$

Simplify by combining like terms.

$$p - 1 + 9 - 8p$$

$$-7p + 8$$

Distribute then combine like terms.

$$-6(x - 2) - 9(5 - x)$$

$$-6x + 12 - 45 + 9x$$

$$3x - 33$$

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 ~ Tuesday 10/8

Evaluate. You MUST show the substitution.

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

$$(1) + (6) - (1 + 4)$$

$$7 - 5 = \textcircled{2}$$



Classwork

Distribute.

$$\begin{array}{c} \downarrow \downarrow \\ -10(1 + 10v) - 7v \end{array}$$

$$\begin{array}{l} -10 \boxed{-100v - 7v} \\ -10 - 107v \end{array}$$

Simplify by combining like terms.

$$\boxed{-5n + 8n}$$

$$3n$$

Evaluate.

$$6 - (y - x)^2; \text{ use } x = 4, \text{ and } y = 5$$

$$6 - (5 - 4)^2$$

$$\textcircled{5}$$

Simplify.

$$(3) \left(\frac{(5)(5)}{4 - (6 - 5) + 2} \right)$$

$$(3) \frac{25}{5}$$

$$(3)5 = \textcircled{15}$$

Mrs. Ferreri's Station ~ The Distributive Property***Distributive then Combine Like Terms.***

$$9(-3n + 9)$$

$$6(1 + 5k)$$

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

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

$$6b - (-10 - 4b)$$

$$4(10x + 2) + x$$

$$9(10x + 9) - 6(x - 4)$$

$$10(9 - 4v) + 3(v + 3)$$

$$10(7 + 6b)$$

$$-9(-4n + 7)$$

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

$$5(b^2 - 2b + 1)$$

$$7(4n + 1) - 6$$

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

$$8(-4b + 2) + 6(1 + 10b)$$

$$6(9 + 4k) - (k - 2)$$

Computer Station ~ PEMDAS

Use your graphing calculator to simplify the following Algebraic expressions.

1) $5 - (5 - 6 - (-4)^2)$

2) $-2 - 3 + \frac{5}{-5} - 2$

3) $\frac{15 - 3}{6(3 - 4)}$

4) $\frac{1}{-3 + 2} + 2 + 1$

5) $(2 \cdot 6 - 4 - 5) \cdot 4$

6) $(3 - (-3 - 2) \cdot -2) \cdot 4$

7) $5 + \frac{8}{2} - 5 \cdot 2$

8) $\frac{(9 - 6) \cdot 2}{-2 + 5}$

9) $\frac{5}{-4 + 4 + 1 + 4}$

10) $3 - (4 - 4)(-5 + 2)$

11) $-1 - 2 \cdot 5 + (-1)^2$

12) $(4 - 6 - 6) \cdot -1 - 4$

13) $\frac{-4}{-1} \cdot \frac{4}{-4} \cdot -4$

14) $\left(\frac{-15}{-3}\right)^2 - 2 \cdot -2$

15) $-4 - 6 + 5(-6 - 3)$

16) $\frac{-2 - 6}{5 - (5 - 2)}$

17) $\frac{-2 - 4}{3(2 - 4)}$

18) $\frac{2 + 10 - 6}{6} - 4$

19) $-5 - 6^2 + 3 \cdot -4$

20) $-6 - 2 + 3 \cdot 5 - 5$

21) $\frac{(-13 + 3) \cdot 2 - 5}{5}$

22) $4 + 4 - 2 - (5 - 6)$

23) $4\left(\frac{-4}{-2} - 3 \cdot -1\right)$

24) $\frac{4}{-2} - 3 - \frac{8}{-4}$

25) $-3 - \left(\frac{6}{3} + 4^2\right)$

26) $-1 - \left(1 + \frac{15 + 5}{5}\right)$

Mrs. Kennedy's Station ~ Evaluating Expressions

You MUST show the substitution first, and then you may use your graphing calculator to simplify.

1) $\frac{z}{2} - (x - x)$; use $x = 4$, and $z = 2$

2) $\frac{z+y}{3} + 5$; use $y = 2$, and $z = 1$

3) $k(j^2 - 2)$; use $j = 4$, and $k = 2$

4) $6 - \frac{x+z}{4}$; use $x = 5$, and $z = 3$

5) $p + p(p + m)$; use $m = 1$, and $p = 5$

6) $\frac{x(x+z)}{6}$; use $x = 3$, and $z = 1$

7) $c + c - (a + 1)$; use $a = 1$, and $c = 6$

8) $p(n + 4 + m)$; use $m = 1$, $n = 3$, and $p = 4$

9) $z + 3(y + y)$; use $y = 4$, and $z = 2$

10) $r + p + q + p$; use $p = 3$, $q = 4$, and $r = 3$

11) $yx(1 + x)$; use $x = 5$, and $y = 2$

12) $5(y + y - x)$; use $x = 3$, and $y = 3$

13) $p + 5m - m$; use $m = 6$, and $p = 5$

14) $\frac{k}{2} + 3h$; use $h = 3$, and $k = 2$

15) $x\left(6 + \frac{z}{5}\right)$; use $x = 3$, and $z = 5$

Independent Station ~ Combine Like Terms

Simplify the Algebraic expressions by combining like terms.

1) $3m - 4 + 5$

2) $8n + 6 + n + 3$

3) $8p - 7 - 6$

4) $4m + 7m$

5) $x - 5 + 5x$

6) $p + 7 - 8p$

7) $7m - 9m$

8) $r - 4 + 3$

9) $8 + 6b + 1 + 10b$

10) $-7k - 2 - 10 + 10k$

11) $a + 7 - 10 - 7a$

12) $7x - 10x$

13) $-4x - 8 + 9 + 8x$

14) $-6v + 10 + 9v - 2$

15) $x + 5 + 1 + 9x$

16) $6p + 8 + 1 + 2p$

Homework ~ Monday 10/7**Evaluate.**

$$\frac{(z+y)^2}{3}; \text{ use } y=4, \text{ and } z=5$$

Simplify by combining like terms.

$$\underline{-3 + 3m - 7}$$

Distribute then combine like terms.

$$-6(1 - 5n) - 6(7n + 10)$$

Simplify.

$$(6)(2 - 1 + 4) - (6)(4 - 4)$$

Homework ~ Tuesday 10/8

Be sure to have the whole packet completed and ready to hand in on Thursday October 10th.