Order of Operations Integers (1)

1) $(6 + (-7) - 1) \times 8$

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

3) $(6 - 1)((-3) - 4)$

4) $20 \div (3 \times 2 - 4)$

5) $4 - 3 + 8 + 3$

6) $7 - (10 - (-8)) - 3$

7) $(28 - 8) \div ((-9) - (-5))$

8) $((-10) + 3) \div ((-8) + 7)$

9) $2 + (-1)^2 - 7$

10) $((-6) \div (-3)) \times ((-30) \div (-3))$

11) $5 - (-7) + 1 + 2$

12) $8 \times (-1) - 3^2$

13) $(-4) \times (-10) \div ((-9) + 7)$

14) $(-8) \times (-30) \div (4 - 9)$

15) $(22 - 6 - 8) \div (-8)$

16) $(4 - 6 - 8) \times 4$

17) $4((-9) - (-8)) \times (-4)$

18) $((-3) + 8 - (-2)) \times 6$

19) $(-9) \div (1 - ((-4) - (-8)))$

20) $(-1) - 5 - (-4)^3$

A

Order of Operations Integers (2)

1) $(-6) \times 30 \div (-3) + 5$

2) $(-6) - ((-13) + 3) \div 10$

3) $((-29) - (4 + 2)) \div 5$

4) $8 + 7 + 10 - (-5)$

5) $(-3) - 3 + 5 - 1$

6) $7 + 6((-6) - 10)$

7) $(9 + 10)((-3) - (-4))$

8) $8 - ((-9) + 9 - 1)$

9) $(-2) - 10 + 4 - (-3)$

10) $6 \times (-9) + 1 - 6$

11) $(30 \div (-5))^2 - 2$

12) $(-2) \times 7 \div ((-4) + 3)$

13) $10(((-6) \div (-1)) - 3)$

14) $10 + 4 + 10 + 9$

15) $6 + (-9) - 8 - 8$

16) $2 + (-3) + 8 + 1$

17) $(-7) - 4 + 2 + 8$

18) $(14 - 8) \div (3 - 6)$

19) $5 - 9 - 10 - (-6)$

20) $(-3) + 3 + 9 \times 4$

B

Order of Operations Integers (3)

1) $(-9) \times 5 + 2^2$

2) $4 - (1 - 8 - 3)$

3) $6 \times 7 + 5 - 7$

4) $8 - 5 - 8 + 8$

5) $(-10) + 6 - 1 - 8$

6) $(-2) - (8 \times 10 + 9)$

7) $(-1) - 3 - (-6) \times (-3)$

8) $24 \div (-6) - ((-1) - 10)$

9) $2 \times 2 + 8 - 3$

10) $(30 - 10) \div (3 + 1)$

11) $(-3) \times (-2) + (-4) + 8$

12) $(7 \times 3) \div ((-1) - 6)$

13) $\left(3^2 - 3\right) \times (-8)$

14) $((-30) \div 6) + 4 \times 2$

15) $(-4) - (7 - (10 - 8))$

16) $5 - 8 \div (-8) - 9$

17) $(-7) - 4 - 9 + 10$

18) $9 - (-1) - 1 - 4$

19) $((-12) \times 2) \div 6$

20) $8 - ((-9) + 10) \times (-7)$

Order of Operations Integers (4)

1) $3 \times 18 \div ((-10) + 1)$

2) $7 - 9 + 5 + 10$

3) $(((-1) - 7) \times 2) \div 8$

4) $(-4) - ((-7) + (-8) + 10)$

5) $2 + 5 - ((-2) - 9)$

6) $2 - 9 - 2 - 9$

7) $1 - 9 \times (-7) - 4$

8) $(-10) \times (-5) - 5 - (-8)$

9) $20 \div 10 - 2 \times 8$

10) $3 - 7 \div ((-2) - (-9))$

11) $(-9) - (-6) + 3 \div 3$

12) $2 - (-8) - 9 \times (-7)$

13) $(13 - 8) \div (6 - 1)$

14) $10 - ((-2) - 8 \times (-9))$

15) $((-3) \times 3 + 4) \div (-1)$

16) $(-15) \div (9 - 1 - 5)$

17) $(-7) \times 2 - 3 \times 2$

18) $((11 - (-10)) \times 2) \div (-6)$

19) $2 \div (-1) - (-4)^2$

20) $3 - 1 - ((-16) \div (-2))$

Order of Operations Integers (5)

1) $10 \div 5 - 5 - 5$

2) $(-3) + 2 - (-5) \times 3$

3) $((-28) \times 2) \div ((-8) - (-1))$

4) $((-9) - 6) \div ((-1) - (-4))$

5) $(-10) \times 8(4 - 3)$

6) $((-17) - (8 - 1)) \div (-4)$

7) $7 + 1 - (4 - 3)$

8) $10 \times ((-10) + 1) \div (-9)$

9) $(-7) + 5 + 5 \times (-4)$

10) $((-26) + 8) \div ((-6) + 4)$

11) $(-3) + 4 - 1 + 3$

12) $(-4) \times (-7) + 9 - 10$

13) $(-4) - 12 \div 3 - 3$

14) $1 + (-9) - ((-8) - 9)$

15) $(-9) - (-1) - 2^2$

16) $((-3) \times 2) \div ((-4) - 2)$

17) $(-5) + (-4) - 9 - 5$

18) $((-26) - (-6) - 4) \div 3$

19) $\left(5^2 - 1\right) \times 4$

20) $5 - 4((-2) - (-2))$

Order of Operations (I)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$((-7)-(-5))^3 \div 4$

$(4^2-8)\times(-9)$

$9 \div 3-(-9)^2$

$(-7)^2-(-10)\times(-3)$

$(-8)\times(-9)+(-3)^3$

$(-2)\times 2^2-4$

$(-8)\times\left((-3)^2+(-10)\right)$

$4-(-3)^3\times 3$

$(-4)^3-(-6)\div 3$

$\left(3^3+(-7)\right)\times(-2)$

Name: _____ Date: _____

Simplify Expressions Worksheet

Simplify the expressions.

1 a. $-5t - 4 - 4t$
2 a. $-1 - 7p - 9x - 9x - 10p$
3 a. $-4 - 7s - 5 + 10s$
4 a. $-8 - 4c - 4p - 3p + 10c$
5 a. $5w^2 + 5w - 5 + 5w^2 - 8$
6 a. $-5k + k + 4 - 6k$
7 a. $5a + 2az + 7 + 6az + 9z$
8 a. $-9x - (-2)x$
9 a. $7 - 9t + 8t + 7 + --8 - 7t$

G

Name: _____ Date: _____

Simplify Expressions Worksheet

Simplify the expressions.

1 a. $-8 + 7t - 7 - 10t$	**1 b.** $3z + 10 - 2z$
2 a. $n + 5n + n + n$	**2 b.** $4a - 3a$
3 a. $-5 - 8p + 1 + 4p$	**3 b.** $9n + (-7)n$
4 a. $-c + 8c + 8 + 8c$	**4 b.** $-8z + 7 - 8z$
5 a. $5n - 2n - 9 - 4n$	**5 b.** $-7 + 6a + 7 + 10a$
6 a. $-7 + 8t + 2t - 9 - 9t$	**6 b.** $6y - 3y + 9 + 2y$
7 a. $-2t - 6 - 1 - 10t$	**7 b.** $-7 - n + 7 - 8n$

Name: _____ Date: _____

Simplify Expressions Worksheet

Simplify the expressions.

1 a. $9 + 3c + 4c + 4 - c$	**1 b.** $10v + 10 - (-2)v$
2 a. $-p - 10p + 1 + 10p$	**2 b.** $-(y - 2) + 9$
3 a. $-(w - 3) - 2$	**3 b.** $2(n - 8) - 2$
4 a. $6(w + 8) + 7$	**4 b.** $-9w + (-4)w$
5 a. $-2x + 3 - 4 + 10x$	**5 b.** $z - (-5)z$
6 a. $-6y + 6 + 6 - 4y$	**6 b.** $-1 - 3(2t + 3)$
7 a. $7 - 3(10z + 6)$	**7 b.** $1 + 2(3p - 7)$

Kuta Software - Infinite Pre-Algebra

Name_____

Multi-Step Equations

Date_____ Period____

Solve each equation.

1) $6a + 5a = -11$

2) $-6n - 2n = 16$

3) $4x + 6 + 3 = 17$

4) $0 = -5n - 2n$

5) $6r - 1 + 6r = 11$

6) $r + 11 + 8r = 29$

7) $-10 = -14v + 14v$

8) $-10p + 9p = 12$

9) $42 = 8m + 13m$

10) $a - 2 + 3 = -2$

11) $18 = 3(3x - 6)$

12) $30 = -5(6n + 6)$

13) $37 = -3 + 5(x + 6)$

14) $-13 = 5(1 + 4m) - 2m$

15) $4(-x + 4) = 12$

16) $-2 = -(n - 8)$

17) $-6(1 - 5v) = 54$

18) $8 = 8v - 4(v + 8)$

19) $10(1 + 3b) = -20$

20) $-5n - 8(1 + 7n) = -8$

21) $8(4k - 4) = -5k - 32$

22) $-8(-8x - 6) = -6x - 22$

23) $8(1 + 5x) + 5 = 13 + 5x$

24) $-11 - 5a = 6(5a + 4)$

25) $-5(4x-2)=-2(3+6x)$

26) $5(2x+6)=-4(-5-2x)+3x$

Kuta Software - Infinite Algebra 1

Name_____

Combining Like Terms

Date_____ Period____

Simplify each expression.

1) $-6k + 7k$

2) $12r - 8 - 12$

3) $n - 10 + 9n - 3$

4) $-4x - 10x$

5) $-r - 10r$

6) $-2x + 11 + 6x$

7) $11r - 12r$

8) $-v + 12v$

9) $-8x - 11x$

10) $4p + 2p$

11) $5n + 11n$

12) $n + 4 - 9 - 5n$

13) $12r + 5 + 3r - 5$

14) $-5 + 9n + 6$

M

15) $n - 4 - 9$

16) $4n - n$

17) $-3x - 9 + 15x$

18) $-9k + 8k$

19) $-16n - 14n$

20) $15n - 19n$

21) $-4 + 7(1 - 3m)$

22) $-5n + 3(6 + 7n)$

23) $-2n - (9 - 10n)$

24) $10 - 5(9n - 9)$

25) $9a + 10(6a - 1)$

26) $-9(6m - 3) + 6(1 + 4m)$

27) $-10(1 - 9x) + 6(x - 10)$

28) $5(-2n + 4) + 2(n + 3)$

29) $-3(10b + 10) + 5(b + 2)$

30) $-7(n + 3) - 8(1 + 8n)$

Mixed Equations

Name: _____ Date: _____

Solve the equations.

(1) $-3x - 8 = x + 4$

(2) $4x - 4(2x - 3) = -32$

(3) $-20 = -3x - 8$

(4) $-4(-4x + 3) = -92$

(5) $\frac{x}{4} + 1 = 4$

(6) $19 = -7x - 6(-x - 2)$

(7) $3 - x = -3 - 2x$

(8) $2 - x = -7 + 2x$

(9) $-2x - 3 = 5$

(10) $-3x + 12 = x - 8$

Mixed Equations

Name: _____ Date: _____

Solve the equations.

(1) $6x - 3(6x + 3) = 87$

(2) $-20 - 6x = x + 22$

(3) $-48 - 4x = 42 + 2x$

(4) $4x - 23 = 7 + 6x$

(5) $5x - 3(3x + 8) = -48$

(6) $20 + 4x = -3x - 43$

(7) $-34 = -2x - 2(-2x + 6)$

(8) $-13 - x = 22 - 6x$

(9) $5x + 28 = -21 - 2x$

(10) $3 + \frac{x}{-4} = -4$

P

Mixed Equations

Name: _____ Date: _____

Solve the equations.

(1) $6x - 3(6x + 3) = 87$

(2) $-20 - 6x = x + 22$

(3) $-48 - 4x = 42 + 2x$

(4) $4x - 23 = 7 + 6x$

(5) $5x - 3(3x + 8) = -48$

(6) $20 + 4x = -3x - 43$

(7) $-34 = -2x - 2(-2x + 6)$

(8) $-13 - x = 22 - 6x$

(9) $5x + 28 = -21 - 2x$

(10) $3 + \frac{x}{-4} = -4$

Mixed Equations

Name: _____ Date: _____

Solve the equations.

(1) $-80 = -2x - 2(3x + 4)$

(2) $14 = 7x + 3(-2x + 8)$

(3) $33 = 3(3x - 7)$

(4) $6(-6x - 3) = 162$

(5) $-6x - 24 = 21 - x$

(6) $4(4x + 5) = -92$

(7) $-26 - 5x = 19$

(8) $\frac{-7x - 6}{-6} = -6$

(9) $-67 = 6x + 5(2x + 9)$

(10) $-7x + 2(4x + 9) = 24$

Solving Multi-Step Equations

Variables on Both Sides - Negative Coefficients

Name: _____ **Date:** _____

Solve the equations.

(1) $8x - 23 = 31 + 6x$

(2) $x - 102 = -11x + 174$

(3) $-51 + 11x = 2x + 93$

(4) $-51 - x = 84 + 8x$

(5) $-4x - 20 = -5x + 13$

(6) $-87 + 7x = 3x + 61$

(7) $x - 149 = 49 + 7x$

(8) $15x - 164 = 76 + 3x$

(9) $-11x - 73 = -2x + 80$

(10) $3x - 158 = 52 + 10x$

Solving Multi-Step Equations

Variables on Both Sides - Negative Coefficients

Name: _____ Date: _____

Solve the equations.

(1) $-22 - 6x = -2x + 26$

(2) $-71 - 6x = 19 + 4x$

(3) $-21 - x = 2x + 21$

(4) $6x - 60 = -2x + 44$

(5) $-35 - 2x = 10 + x$

(6) $-43 - 6x = 20 + 3x$

(7) $-19 - 3x = 9 - 5x$

(8) $-40 + 6x = 32 - 2x$

(9) $-5x - 39 = 10 + 2x$

(10) $6x - 20 = 8 + 4x$

Solving Multi-Step Equations

Variables on Both Sides - Negative Coefficients

Name: _____ **Date:** _____

Solve the equations.

(1) $-48 + 8x = 2x + 30$

(2) $-13 + 9x = 8x + 4$

(3) $-19 + 4x = x + 41$

(4) $-20 + 6x = 2x + 24$

(5) $-2x - 102 = 4x + 30$

(6) $8x - 105 = -3x + 82$

(7) $-x - 85 = 5x + 35$

(8) $-27 + 3x = 43 - 2x$

(9) $-30 - 6x = 15 - 3x$

(10) $2x - 9 = 5x + 21$