

New Bedford Public Schools
Division of Adult & Continuing Education

New Bedford High School Evening Extension

2019 – 2020 School Year
Trimester III

Learning Packet
for
Algebra I

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Algebra I Evening At- home Learning Packets

Using the Distributive Property

Date _____ Period _____

Simplify each expression.

1) $-6(a + 8)$

2) $4(1 + 9x)$

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

4) $(9m + 10) \cdot 2$

5) $(-4 - 3n) \cdot (-8)$

6) $8(-b - 4)$

7) $(1 - 7n) \cdot 5$

8) $-6(x + 4)$

9) $5(3m - 6)$

10) $(-6p + 7) \cdot (-4)$

11) $5(b - 1)$

12) $(x + 9) \cdot 5$

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) $n + 4 - 9 - 5n$

One-Step Equations

Date _____ Period _____

Solve each equation.

1) $26 = 8 + v$

2) $3 + p = 8$

3) $15 + b = 23$

4) $-15 + n = -9$

5) $m + 4 = -12$

6) $x - 7 = 13$

7) $m - 9 = -13$

8) $p - 6 = -5$

9) $v - 15 = -27$

10) $n + 16 = 9$

11) $-104 = 8x$

12) $14b = -56$

Two-Step Equations

Date _____ Period _____

Solve each equation.

1) $6 = (a/4) + 2$

2) $-6 + (x/4) = -5$

3) $9x - 7 = -7$

4) $0 = 4 + (n/5)$

5) $-4 = (r/20) - 5$

6) $-1 = 5 + (x/6)$

7) $v + 93 = 8$

8) $2(n + 5) = -2$

9) $-9x + 1 = -80$

10) $-6 = (n/2) - 10$

11) $-2 = 2 + (v/4)$

12) $144 = -12(x + 5)$

Finding Slope From Two Points

Date _____ Period _____

Find the slope of the line through each pair of points.

Slope equation $m = \text{rise/run}$ $m = (y_2 - y_1)/(x_2 - x_1)$

1) (19, -16), (-7, -15)

2) (1, -19), (-2, -7)

3) (-4, 7), (-6, -4)

4) (20, 8), (9, 16)

5) (17, -13), (17, 8)

6) (19, 3), (20, 3)

7) (3, 0), (-11, -15)

8) (19, -2), (-11, 10)

9) (6, -10), (-15, 15)

10) (12, -18), (-15, -18)

11) (3, -20), (5, 8)

12) (15, 8), (-17, 9)

Finding Slope From an Equation

Date _____ Period _____

Find the slope of each line. (re-write in $y=mx+b$ form when necessary and slope is your m)

1) $y = (-5/2)x - 5$

2) $y = (-4/3)x - 1$

3) $y = -x + 3$

4) $y = -4x - 1$

5) $2x - y = 1$

6) $x + 2y = -8$

7) $8x + 3y = -9$

8) $4x + 5y = -10$

9) $x - y = -2$

10) $4x - 3y = 9$

11) $3x + 2y = 6$

12) $4x - 5y = 0$