Algebra Drills

Name_____

Order of Operations

Date_____ Period____

Evaluate each expression.

1) $\frac{6}{6} + (4)(6)$

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

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

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

5) $((5)(3))(6 - 3)$

6) $\left(\frac{6}{2}\right)^2 - 6$

7) $5 + 1 - \frac{8}{2}$

8) $\frac{5 - (3 - 2)}{4}$

9) $(5 - 1)(6) + 5$

10) $((2)(4))(5) - 6$

Algebra Drills

Name_____

Fractions

Date_____ Period____

Simplify each expression.

1) $\frac{7}{6}p - \frac{11}{5}p$

2) $\frac{17}{5}p - \frac{31}{9} + 1$

3) $-\frac{6}{5}a - \frac{35}{9}a$

4) $\frac{49}{10}n + \frac{7}{4}n$

5) $r + \frac{1}{2} - \frac{9}{5}r - 2$

6) $a - \frac{17}{5} - a$

7) $\frac{16}{9}v + \frac{46}{7} + \frac{11}{7}v$

8) $\frac{38}{7}m - \frac{3}{10}m$

9) $-\frac{9}{5}m + \frac{11}{2}m$

10) $r + \frac{47}{9} + r - \frac{20}{7}$

Sec 2 Algebra Drills

Name_____

One Step Equations

Date_____ Period____

Solve each equation.

1) $11 = -2 + x$

2) $-360 = -18x$

3) $4x = 32$

4) $0 = -1 + n$

5) $7 = \frac{p}{14}$

6) $18k = -252$

7) $2n = 38$

8) $\frac{a}{17} = -7$

9) $-23 = n - 15$

10) $\frac{b}{4} = -5$

11) $a + 5 = -10$

12) $12 = m - 6$

13) $n - 4 = -21$

14) $12 = \frac{n}{11}$

Sec 2 Algebra Drills

Name_____

Combining Like Terms

Date_____ Period____

Simplify each expression.

1) $a - 9 + 4a$

2) $r - 4 + 4 + 3r$

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

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

5) $-(7 + 9m) + 3m$

6) $3(-3x + 2) + 8(x + 3)$

7) $3(1 - x) - 7(-5x + 9)$

8) $-10(7 - 4v) - 5(-10v - 6)$

9) $7(v - 1) - 9(5v - 1)$

10) $-(4p - 6) - 6(3 + 10p)$

Algebra Drills

Name_____

Solving with Square Roots pt 1

Date_____ Period____

Solve each equation by taking square roots.

1) $-10n^2 = -730$

2) $v^2 - 7 = 74$

3) $36p^2 = 9$

4) $10x^2 = 530$

5) $k^2 + 10 = 32$

6) $x^2 - 5 = 76$

7) $-3x^2 = -78$

8) $m^2 - 1 = 23$

9) $-8x^2 = -312$

10) $2v^2 = 60$

Sec 2 Algebra Drills

Name_____

Two-Step Equations pt 1

Date_____ Period____

Solve each equation.

1) $\frac{-9+x}{3}=3$

2) $4=\frac{a}{14}+5$

3) $\frac{n-2}{2}=-2$

4) $-2=1+\frac{x}{5}$

5) $-10-6r=92$

6) $2-6x=-58$

7) $-8=\frac{n}{15}-7$

8) $-3=\frac{-7+x}{3}$

9) $\frac{p-5}{2}=7$

10) $-10+\frac{x}{2}=-7$

Sec 2 Algebra Drills

Name_____

Two-Step Equations pt 2

Date_____ Period____

Solve each equation.

1) $-32 = -4(x + 8)$

2) $-72 = -9(2 + p)$

3) $2 = \frac{10 + n}{3}$

4) $2(n - 5) = 24$

5) $\frac{x}{2} - 3 = -7$

6) $5 = \frac{9 + n}{2}$

7) $2 = 1 + \frac{x}{6}$

8) $-10 - 7r = 39$

9) $102 = 2 + 10n$

10) $\frac{-6 + p}{15} = -1$

Sec 2 Algebra Drills

Name_____

Multi-Step Equations pt 1

Date_____ Period____

Solve each equation.

1) $6v - 2v = -12$

2) $-4m + 2m = -10$

3) $-8n + 5 + 7n = 1$

4) $18 = n + 5 + 5$

5) $-2(7n + 1) = -86$

6) $8(-6p - 1) = 136$

7) $5(5n + 2) = -90$

8) $-115 = 5(2p - 7)$

9) $-56 = 4(3 + 4a) - 4(6 - 7a)$

10) $-8(8 + 3n) + 8(1 - 5n) = 72$

Sec 2 Algebra Drills

Name_____

Multi-Step Equations pt 2

Date_____ Period____

Solve each equation.

1) $168 = -6(5b + 7)$

2) $136 = 8(4a + 5)$

3) $8 + 5(2k + 7) = 113$

4) $180 = 6(4v - 2)$

5) $170 = -5(1 - 5r)$

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

7) $-9 = 4(4k - 4) + 7(1 - 4k)$

8) $-21 = 3(k + 2) - 5(k + 7)$

9) $26 = 5(-v + 6) - (-4v - 1)$

10) $-8(v - 2) + 6(-7v + 3) = 34$