SCHOOLHOUSE NEWS
The Purcell Register

High School

Students,

Each week you will be given math assignments that are to be utilized as a class review. Each week covers a topic that was discussed and taught in your class. These lessons are separated into 3 groups; algebra 1, algebra 2, and geometry. Please go to your respective class and complete the lesson there. Occasionally, the algebra 1 and algebra 2 lesson will be the same, however the work will be different.

To turn in these homeworks, email them to your respective teacher. If email is not an option, please contact your school's principal for further options via phone.

Participating math teacher's emails are as follows:

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Thank you for your cooperation and patience during these trying times!

High School Math PLC

Main Ideas/Questions	Notes/Examples
Steps to Solve a Multi-Step Equation	1. Distribute (if necessary) 2. Combine like terms. 3. Solve!
Examples	**1.** $9x + 1 - 7x - 5 = -20$ $2x - 4 = -20$ $+4 \quad +4$ $\frac{2x}{2} = \frac{-16}{2}$ $x = -8$ **2.** $91 = -7(3a - 1)$ $91 = -21a + 7$ $-7 \quad -7$ $\frac{84}{-21} = \frac{-21a}{-21}$ $a = -4$ **3.** $4m - 5(3m + 10) = 126$ $4m - 15m - 50 = 126$ $-11m - 50 = 126$ $+50 \quad +50$ $\frac{-11m}{-11} = \frac{176}{-11}$ $m = -16$ **4.** $-3(k - 8) - (k + 5) = 23$ $-3k + 24 - k - 5 = 23$ $-4k + 19 = 23$ $-19 \quad -19$ $\frac{-4k}{-4} = \frac{4}{-4}$ $k = -1$ **5.** $20 = 10x - 6(2x + 5)$ $20 = 10x - 12x - 30$ $20 = -2x - 30$ $+30 \quad +30$ $\frac{50}{-2} = \frac{-2x}{-2}$ $x = -25$

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Algebra 1 Name_____
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Assignment Week 1 Multi-Step Equations

Solve each equation.

1) $\frac{a}{15} + 7 = 8$
A) {−12} B) {15}
C) {−3}

2) $11 = 5m - 9$
A) {−3} B) {14} C) {4}

3) $\frac{x - 1}{4} = 1$
A) {13} B) {15} C) {5}

4) $-105 = -5(n + 7)$
A) {−11} B) {14} C) {1}

5) $\frac{x - 3}{2} = -9$
A) {−7} B) {−15}
C) {−12}

6) $8 = -8(x + 10)$
A) {−11} B) {−17}
C) {14}

7) $2 = \frac{-5 + m}{2}$
A) {−7} B) {9} C) {3}

8) $-3 = -4 + \frac{p}{4}$
A) {4} B) {−10}
C) {−15}

9) $123 = 6(-2m + 5) - 3$
A) {0} B) {−8} C) {−6}

10) $90 = -6(x - 7)$
A) {−3} B) No solution.
C) {−8}

11) $244 = -8 + 7(-6 + 7m)$
A) {12} B) {6} C) {15}

12) $6(1 - 7x) = 132$
A) {10} B) {−10}
C) {−3}

13) $6(1 - 2x) = 90$
A) {−15} B) {−11}
C) {−7}

14) $84 = 4(-2a + 5)$
A) {−1} B) {−8} C) {0}

15) $2x + 8(2 + 4x) = 254$
A) {−9} B) {8} C) {7}

16) $84 = 7(6k - 6)$
A) {3} B) No solution.
C) {−3}

17) $x + 2 + 8x = -7(x + 2) + 8(1 + 3x)$
A) {8} B) {1} C) {10}

18) $5(4x - 8) + 5 = 5(x - 4)$
A) {1} B) {−16}
C) {−14}

19) $4(3x + 2) + 7 = -5(-2x - 7) + 6x$
A) {5} B) {−5} C) {8}

20) $-5(-7x - 3) - 5(1 + 5x) = -2x + 2x$
A) {−1} B) {−2} C) {16}

21) $2(-1 + 2v) + 6v = -7(v + 4) + 4v$
A) {−11} B) No solution.
C) {−2}

22) $4(4 - 6x) - 6 = 3(5 - 8x) - 5$
A) { All real numbers. } B) {6}
C) {9}

23) $-3m + 7m = 8(m - 5) + 4(4 - 4m)$
A) {−16} B) {−2}
C) {−6}

24) $3p - 1 + p = 3(-2 + 5p) - 2(6p + 5)$
A) {−2} B) {−15} C) {6}

Algebra 2 Name_____ ID: 1
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Assignment Week 1 Solve 2-step and Multi-Step Equations

Period____

Solve each equation.

1) $6a - 14 = 3a - (6 + 5a)$
A) {7}
B) {−6}
C) { All real numbers. }
D) {1}

2) $33 - 3x = 2(-5x + 6)$
A) {6} B) {−3}
C) {8} D) {−10}

3) $-6v + 36 = 8(v + 8)$
A) {−14} B) {−11}
C) {−2} D) {6}

4) $-4(x - 4) - 7 = -9 - 7x$
A) {−7} B) {2}
C) {11} D) {−6}

5) $6(8 + 6p) + 3 = -17 + 2p$
A) {−2} B) {0}
C) {−12} D) {5}

6) $16 + 8a = -8(a - 7) + 8$
A) {−15} B) {−11}
C) {15} D) {3}

7) $31 - 6b = 8 - (1 + 2b)$
A) {12} B) {−8}
C) {6} D) {−16}

8) $3(-3m - 2) + 7m = -8m$
A) {−4} B) {14}
C) {−6} D) {1}

9) $-(v - 3) = 11 + 3v$
A) {8} B) {−2}
C) {−12} D) {4}

10) $4x - 36 = -8(-x + 6)$
A) {−15} B) {3}
C) {16} D) {14}

11) $2(-4 + 2n) = 5(n - 4)$
A) {12}
B) { All real numbers. }
C) {1}
D) {−11}

12) $-8(7 + n) = -4n + 8(n + 5)$
A) {−13} B) {8}
C) {−8} D) No solution.

13) $2(2n + 7) = 7(n + 2) - 7n$
A) { All real numbers. }
B) {−12}
C) {−5}
D) {0}

14) $-4(6 - 5p) = 8(8 + 8p)$
A) {−16} B) {3}
C) {−2} D) {2}

15) $-6r - 8(r + 8) = 3r - 8(8 - 3r)$
A) {0} B) {−7}
C) {10} D) {−16}

16) $6(x - 3) = 3(x + 5)$
A) {11}
B) {−8}
C) { All real numbers. }
D) {−13}

17) $7(1 - x) = 4 - (6x + 4)$
A) {−8}
B) { All real numbers. }
C) {7}
D) {−4}

18) $2v + 6(3v - 8) = 3v - 6(-5v - 5)$
A) {−15} B) {−2}
C) No solution. D) {−6}

19) $-2x - 8x = -3(1 - 8x) + 7(1 - 5x)$
A) {12} B) {4}
C) {13} D) {−10}

20) $-4(2 - 3k) + 2(k - 4) = -3k + k$
A) No solution. B) {8}
C) {1} D) {−11}