





## 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:

Danny Somers - dsomers@lexington.k12.ok.us Kayla Stewart - kstewart@lexington.k12.ok.us James Clevenger - jclevenger@lexington.k12.ok.us TJ Scholz - tjscholz@wps-isd.com Kathy Barker - kbarker@wps-isd.com Richard Norman - rnorman@dibble.k12.ok.us Nick Price – nprice@dibble.k12.ok.us Louis Robinson - robinson@dibble.k12.ok.us

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

High School Math PLC

| Main Ideas/Questions                    | Notes/Examples  |  |  |  |
|---|---|--|--|--|
| Steps to Solve a<br>Multi-Step Equation | 1. Distribute (if necessary)<br>2. Combine Like terms.<br>3. Solve!   |  |  |  |
| Examples                                | 1. $9x + 1 - 7x - 5 = -20$<br>2X - 4 = -20<br>+4 + 44<br>$\frac{2X}{2} = \frac{-16}{2}$ $X = -8$  |  |  |  |
|   | 2. $91 = -7(3a - 1)$<br>91 = -21a + 7<br>$\frac{-7}{84} = \frac{-21a}{-21}$<br>a = -4   |  |  |  |
|   | 3. $4m - 5(3m + 10) = 126$<br>4m - [5m - 5D = 126<br>-11m - 50 = 126<br>+50 + 50<br>-11m = 176<br>-11 - 11<br>M = -16                       |  |  |  |
|   | 4. $-3(k-8) - (k+5) = 23$<br>-8k+24 - k-5 = 23<br>-4k + 19 = 23<br>-19 - 19<br>-4k = 4<br>5. $20 = 10x - 6(2x + 5)$<br>-2k = 10x - 12x = 20 |  |  |  |
|   | 20 = 10X - 12X - 30<br>20 = -2X - 30<br>+30 + 30<br>50 = -2X<br>50 = -2X<br>50 = -2X  |  |  |  |

-2

|  |  | Algebra 2   | Name  |  |
|--|--|---|---|--|
| Algebra 1<br>© 2020 Kuta Software LLC. All rights reserved.                            |  | © 2020 Kuta Software LLC. All r   | © 2020 Kuta Software LLC. All rights reserved.              |  |
| Assignment Week 1 Multi-Step Equations   |  |   | Assignment Week 1 Solve 2-step and Multi-Step Equations     |  |
| Solve each equation.   |  | Solve each equation.  |   |  |
| a  | 2) $11 = 5m - 9$   | 1) $6a - 14 = 3a - (6 + 5a)$  | 2) $33 - 3x = 2(-5x + 6)$                                   |  |
| 1) $\frac{a}{15} + 7 = 8$  | A) $[-3]$ B) $[14]$ C) $[4]$   | A) {7}  | A) $\{6\}$ B) $\{-3\}$<br>C) $\{8\}$ D) $\{-10\}$           |  |
| A) {-12} B) {15}   |  | B) {-6}<br>C) { All real numbers. }   |   |  |
| C) {-3}  | 4) $-105 = -5(n+7)$  | D) {1}  |   |  |
| 3) $\frac{x-1}{4} = 1$   | (4) $-103 = -5(n + 7)$<br>(A) $\{-11\}$ (B) $\{14\}$ (C) $\{1\}$   | 3) $-6v + 36 = 8(v + 8)$  | 4) $-4(x-4) - 7 = -9 - 7x$                                  |  |
| A) {13} B) {15} C) {5}   |  | A) $\{-14\}$ B) $\{-11\}$<br>C) $\{-2\}$ D) $\{6\}$   | A) $\{-7\}$ B) $\{2\}$<br>C) $\{11\}$ D) $\{-6\}$           |  |
| 5) $\frac{x-3}{2} = -9$  | 6) $8 = -8(x + 10)$  | 5) $6(8+6p) + 3 = -17 + 2p$   | 6) $16 + 8a = -8(a - 7) + 8$                                |  |
|  | A) $\{-11\}$ B) $\{-17\}$  | A) {-2} B) {0}  | A) $\{-15\}$ B) $\{-11\}$                                   |  |
| A) $\{-7\}$ B) $\{-15\}$<br>C) $\{-12\}$   | C) {14}  | C) $\{-12\}$ D) $\{5\}$<br>7) $31 - 6b = 8 - (1 + 2b)$  | C) $\{15\}$ D) $\{3\}$<br>8) $3(-3m-2) + 7m = -8m$          |  |
| 7) $2 = \frac{-5 + m}{2}$  | 8) $-3 = -4 + \frac{p}{4}$   | A) $\{12\}$ B) $\{-8\}$   | A) {-4} B) {14}   |  |
| _  | T Contraction of the second seco | C) $\{6\}$ D) $\{-16\}$   | C) $\{-6\}$ D) $\{1\}$                                      |  |
| A) {-7} B) {9} C) {3}  | A) $\{4\}$ B) $\{-10\}$<br>C) $\{-15\}$  | 9) $-(v-3) = 11 + 3v$   | 10) $4x - 36 = -8(-x + 6)$<br>A) $\{-15\}$ B) $\{3\}$       |  |
| 9) $123 = 6(-2m+5) - 3$  | $\begin{array}{c} (-1) \\ 10 \\ 90 = -6(x-7) \end{array}$  | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | C) $\{16\}$ D) $\{14\}$                                     |  |
| A) $\{0\}$ B) $\{-8\}$ C) $\{-6\}$   | A) $\{-3\}$ B) No solution.  | 11) $2(-4+2n) = 5(n-4)$   | 12) $-8(7+n) = -4n + 8(n+5)$                                |  |
| 11) $244 = -8 + 7(-6 + 7m)$  | C) $\{-8\}$<br>12) $6(1-7x) = 132$   | A) $\{12\}$   | A) $\{-13\}$ B) $\{8\}$<br>C) $\{-8\}$ D) No solution.      |  |
| A) $\{12\}$ B) $\{6\}$ C) $\{15\}$   | A) $\{10\}$ B) $\{-10\}$   | <ul><li>B) { All real numbers. }</li><li>C) {1}</li></ul>   |   |  |
|  | C) {-3}  | D) $\{-11\}$  |   |  |
| 13) $6(1-2x) = 90$   | 14) $84 = 4(-2a + 5)$  | 13) $2(2n+7) = 7(n+2) - 7n$   | 14) $-4(6-5p) = 8(8+8p)$                                    |  |
| A) $\{-15\}$ B) $\{-11\}$<br>C) $\{-7\}$   | A) $\{-1\}$ B) $\{-8\}$ C) $\{0\}$   | <ul> <li>A) { All real numbers. }</li> <li>B) {-12}</li> </ul>  | A) [-16] B) [3]<br>C) [-2] D) [2]                           |  |
| $15) \ 2x + 8(2 + 4x) = 254$   | 16) $84 = 7(6k - 6)$   | C) {-5}   |   |  |
| A) {-9} B) {8} C) {7}  | A) $\{3\}$ B) No solution.   | D) $\{0\}$<br>15) $-6r - 8(r+8) = 3r - 8(8-3r)$   | 16) $6(x-3) = 3(x+5)$                                       |  |
| 17) $x + 2 + 8x = -7(x + 2) + 8(1 + 3x)$   | C) $\{-3\}$<br>18) $5(4x-8) + 5 = 5(x-4)$  | $\begin{array}{c} 15 & -67 - 8(7 + 8) = 57 - 8(8 - 57) \\ \text{A)} & \left\{ 0 \right\}  \text{B)}  \left\{ -7 \right\} \end{array}$ | A) {11}   |  |
| A) $\{8\}$ B) $\{1\}$ C) $\{10\}$  | A) $\{1\}$ B) $\{-16\}$  | C) $\{10\}$ D) $\{-16\}$  | B) {-8}   |  |
|  | C) {-14}   |   | <ul><li>C) { All real numbers. }</li><li>D) {-13}</li></ul> |  |
| 19) $4(3x+2) + 7 = -5(-2x-7) + 6x$   | 20) -5(-7x - 3) - 5(1 + 5x) = -2x + 2x   | 17) $7(1-x) = 4 - (6x + 4)$   | $18) \ 2v + 6(3v - 8) = 3v - 6(-5v - 5)$                    |  |
| A) $\{5\}$ B) $\{-5\}$ C) $\{8\}$<br>21) $2(-1+2\nu)+6\nu = -7(\nu+4)+4\nu$            | A) $\{-1\}$ B) $\{-2\}$ C) $\{16\}$<br>22) $4(4-6x)-6=3(5-8x)-5$   | A) $\{-8\}$   | A) {-15} B) {-2}  |  |
| A) {-11} B) No solution.   | A) {All real numbers. } B) $\{6\}$   | B) { All real numbers. }  | C) No solution. D) $\{-6\}$                                 |  |
| $\begin{array}{c} C) \ \{-2\} \\ 22) \ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$ | C) {9}   | C) {7}<br>D) [-4]   |   |  |
| 23) $-3m + 7m = 8(m - 5) + 4(4 - 4m)$<br>A) $[-16]$ B) $[-2]$                          | 24) $3p-1+p=3(-2+5p)-2(6p+5)$  | 19) -2x - 8x = -3(1 - 8x) + 7(1 - 5x)   | 20) $-4(2-3k) + 2(k-4) = -3k + k$                           |  |
| C) $[-6]$ B) $\{-2\}$  | A) $\{-2\}$ B) $\{-15\}$ C) $\{6\}$  | A) {12} B) {4}  | A) No solution. B) $\{8\}$                                  |  |
|  |  | C) $\{13\}$ D) $\{-10\}$  | C) $\{1\}$ D) $\{-11\}$                                     |  |

ID: 1

Period

© Gina Wilson (All Things Algebra<sup>4</sup>, LLC), 2012-2016