

GSE Algebra I Homework  
1-Variable Equations Practice

Name \_\_\_\_\_

1.  $x - 7 = 13$

$20$

2.  $n + 16 = 9$

$-7$

~~$18(-5) = \left(\frac{a}{18}\right) \cdot 18$~~

$a = -90$

4.  $-143 = -11x$

$13$

5.  $-17 = x - 15$

$-2$

6.  $\frac{-2 = 2 + \frac{0}{4}}{-2 - 2}$

~~$-16 + (-4) = \left(\frac{v}{4}\right) \cdot 4$~~

7.  $144 = -12(x + 5)$

$-17$

8.  $-15 = \frac{m+5}{-4}$

$55$

9.  $\frac{10 - 6v = -104}{-10 - 10}$

$19$   
 ~~$-6v = -114$~~

10.  $\frac{8n+7}{2} = 31$   $6.875$

$\frac{55}{8}$   
 $62$   
 $55$

11.  $13 - 4x = 1 - x$

$\frac{13 - 3x = 1}{-13 \quad -13}$   
 $-3x = -12$   
 $x = 4$

12.  $n + 2 = -14 - n$

$\frac{2n + 2 = -14}{-2 \quad -2}$   
 $2n = -16$   
 $n = -8$

13.  $\underline{-10} + x + \underline{4} - \underline{5} = 7x - 5$

$\frac{x - 11 = 7x - 5}{-7x \quad -7x}$   
 $\frac{-6x - 11 = -5}{+11 \quad +11}$   
 $-6x = 6$   $x = -1$

14.  $7(5a - 4) - 1 = 14 - 8a$

$35a - 28 - 1$   
 $35a - 29 = 14 - 8a$   
 $\frac{+8a \quad +8a}{43a - 29 = 14}$   $43a = 43$   
 $\frac{+29 \quad +29}{a = 1}$

15.  $3(1 - 3x) = 2(-4x + 7)$

$3 - 9x = -8x + 14$   
 $\frac{+8x \quad +8x}{3 - x = 14}$   $x = -11$   
 $\frac{-3 \quad -3}{-x = 11}$   
 $\frac{-1 \quad -1}{x = -11}$