Simplifying and Solving Equations (B)

Name: _____ Date: _____

Determine the value of the unknown in each equation.

1. $-8c + 8 = 5c + 2$
2. $6 - 7w = -w + 6$
3. $-2 + 6d = 4d + 8$
4. $-6g - 5 = -5g + 6$
5. $-4(a + 2) - 1 = -5a$
6. $8b + 5 = -1 + 6b$
7. $-6j + 6 = j + 3$
8. $2(f + 2) = 5 - 3f$
9. $1 + 5n = n + 8$
10. $-3(z + 2) = -9z + 1$
11. $-3 + 8t = -1 + 5t$
12. $-2(1 + h) = -7(h + 1)$
13. $-6p = -2(4 - p) - 7$
14. $-2(2 + 3x) = -3(2 - 3x)$
15. $-8 - m = 7 - 6m$
16. $-9 - 6y = 2 + 2y$
17. $-4(2r + 1) = -6 + r$
18. $-5 - k = -8 - 5k$
19. $9s - 7 = -4s + 7$
20. $2(q - 3) - 8 = -q$

Simplifying and Solving Equations (B) Answers

Name: _____ Date: _____

Determine the value of the unknown in each equation.

1. $-8c + 8 = 5c + 2$
   $c = \frac{6}{13}$

2. $6 - 7w = -w + 6$
   $w = 0$

3. $-2 + 6d = 4d + 8$
   $d = 5$

4. $-6g - 5 = -5g + 6$
   $g = -11$

5. $-4(a + 2) - 1 = -5a$
   $a = 9$

6. $8b + 5 = -1 + 6b$
   $b = -3$

7. $-6j + 6 = j + 3$
   $j = \frac{3}{7}$

8. $2(f + 2) = 5 - 3f$
   $f = 1\frac{4}{5}$

9. $1 + 5n = n + 8$
   $n = 1\frac{3}{4}$

10. $-3(z + 2) = -9z + 1$
    $z = 1\frac{1}{6}$

11. $-3 + 8t = -1 + 5t$
    $t = \frac{2}{3}$

12. $-2(1 + h) = -7(h + 1)$
    $h = -1$

13. $-6p = -2(4 - p) - 7$
    $p = 1\frac{7}{8}$

14. $-2(2 + 3x) = -3(2 - 3x)$
    $x = \frac{2}{15}$

15. $-8 - m = 7 - 6m$
    $m = 3$

16. $-9 - 6y = 2 + 2y$
    $y = -1\frac{3}{8}$

17. $-4(2r + 1) = -6 + r$
    $r = \frac{2}{9}$

18. $-5 - k = -8 - 5k$
    $k = -\frac{3}{4}$

19. $9s - 7 = -4s + 7$
    $s = 1\frac{1}{13}$

20. $2(q - 3) - 8 = -q$
    $q = 2\frac{4}{5}$