

Simplifying and Solving Equations (D)

Name: _____

Date: _____

Determine the value of the unknown in each equation.

1. $-2(3 + t) - 8 = 5t$

11. $-4 - h = h - 9$

2. $7y - 2 = -4y + 7$

12. $-5 + 3z = -6z + 7$

3. $4a - 1 = -9a + 8$

13. $3(1 + p) - 2 = -p$

4. $1 + m = 4 - 4m$

14. $-8d - 9 = 2 + 3d$

5. $-4s + 5 = 5 + 8s$

15. $-3 - 2v = -5 + 9v$

6. $2f - 8 = -5 - 9f$

16. $4 - g = 2 + 9g$

7. $1 - 8j = -9 - 3j$

17. $2k - 3 = 7 - 3k$

8. $5q = 3(1 + 2q) - 4$

18. $8 + 9x = 7(x - 1)$

9. $-4r - 3 = 4 + 9r$

19. $1 + n = 9n - 1$

10. $7 + 3b = 5b + 8$

20. $c + 3 = -7 - 8c$

Simplifying and Solving Equations (D) Answers

Name: _____

Date: _____

Determine the value of the unknown in each equation.

1. $-2(3 + t) - 8 = 5t$

$t = -2$

2. $7y - 2 = -4y + 7$

$y = \frac{9}{11}$

3. $4a - 1 = -9a + 8$

$a = \frac{9}{13}$

4. $1 + m = 4 - 4m$

$m = \frac{3}{5}$

5. $-4s + 5 = 5 + 8s$

$s = 0$

6. $2f - 8 = -5 - 9f$

$f = \frac{3}{11}$

7. $1 - 8j = -9 - 3j$

$j = 2$

8. $5q = 3(1 + 2q) - 4$

$q = 1$

9. $-4r - 3 = 4 + 9r$

$r = -\frac{7}{13}$

10. $7 + 3b = 5b + 8$

$b = -\frac{1}{2}$

11. $-4 - h = h - 9$

$h = 2\frac{1}{2}$

12. $-5 + 3z = -6z + 7$

$z = 1\frac{1}{3}$

13. $3(1 + p) - 2 = -p$

$p = -\frac{1}{4}$

14. $-8d - 9 = 2 + 3d$

$d = -1$

15. $-3 - 2v = -5 + 9v$

$v = \frac{2}{11}$

16. $4 - g = 2 + 9g$

$g = \frac{1}{5}$

17. $2k - 3 = 7 - 3k$

$k = 2$

18. $8 + 9x = 7(x - 1)$

$x = -7\frac{1}{2}$

19. $1 + n = 9n - 1$

$n = \frac{1}{4}$

20. $c + 3 = -7 - 8c$

$c = -1\frac{1}{9}$