

# Simplifying and Solving Equations (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Determine the value of the unknown in each equation.

1.  $2(3 - h) - 6 = -5h$

11.  $2(3x - 2) + 9 = -5x$

2.  $7 + 9d = 7d + 3$

12.  $3(1 + p) = -5(p + 1)$

3.  $-2(4 + 3y) = -2(4 + y)$

13.  $3(1 - 3g) = -7 + g$

4.  $-7 + 4c = 7c + 6$

14.  $1 + 2b = 4b + 9$

5.  $5(1 + s) = -9s + 6$

15.  $2z + 6 = 3z + 1$

6.  $3 + v = 2(2v - 1)$

16.  $5a - 2 = -9a + 8$

7.  $-2 - 4w = 7w - 8$

17.  $6t - 5 = -9t - 9$

8.  $-6(1 - m) = 9 - 2m$

18.  $-1 + 3f = -7 - 6f$

9.  $-2q - 3 = -2(2q + 1)$

19.  $2 + r = 7 + 6r$

10.  $6n + 7 = 2n + 5$

20.  $-6k + 1 = -2 + 7k$

# Simplifying and Solving Equations (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Determine the value of the unknown in each equation.

1.  $2(3 - h) - 6 = -5h$

$h = 0$

2.  $7 + 9d = 7d + 3$

$d = -2$

3.  $-2(4 + 3y) = -2(4 + y)$

$y = 0$

4.  $-7 + 4c = 7c + 6$

$c = -4\frac{1}{3}$

5.  $5(1 + s) = -9s + 6$

$s = \frac{1}{14}$

6.  $3 + v = 2(2v - 1)$

$v = 1\frac{2}{3}$

7.  $-2 - 4w = 7w - 8$

$w = \frac{6}{11}$

8.  $-6(1 - m) = 9 - 2m$

$m = 1\frac{7}{8}$

9.  $-2q - 3 = -2(2q + 1)$

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

10.  $6n + 7 = 2n + 5$

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

11.  $2(3x - 2) + 9 = -5x$

$x = -\frac{5}{11}$

12.  $3(1 + p) = -5(p + 1)$

$p = -1$

13.  $3(1 - 3g) = -7 + g$

$g = 1$

14.  $1 + 2b = 4b + 9$

$b = -4$

15.  $2z + 6 = 3z + 1$

$z = 5$

16.  $5a - 2 = -9a + 8$

$a = \frac{5}{7}$

17.  $6t - 5 = -9t - 9$

$t = -\frac{4}{15}$

18.  $-1 + 3f = -7 - 6f$

$f = -\frac{2}{3}$

19.  $2 + r = 7 + 6r$

$r = -1$

20.  $-6k + 1 = -2 + 7k$

$k = \frac{3}{13}$