

Simplifying and Solving Equations (E)

Name: _____

Date: _____

Determine the value of the unknown in each equation.

1. $-4 - 9p = 7p + 6$

11. $7n - 2 = -7n - 8$

2. $3w + 4 = 8w + 1$

12. $9 - 7m = -1 + m$

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

13. $1 - 8k = 5k - 8$

4. $6 + t = -9 + 2t$

14. $-7h + 1 = -4h - 8$

5. $-2(4 + 3j) - 1 = 6j$

15. $3 + 4s = 7 + 2s$

6. $-2(3f - 1) = 4f - 7$

16. $1 - 9a = -1 + 6a$

7. $-9 - 7q = 1 + 4q$

17. $1 - 5d = -7 - 3d$

8. $-8 - 8r = 4 - 2r$

18. $-9 + 7g = -g + 8$

9. $-2(1 - 3v) = -6v - 5$

19. $-3(x - 3) = 2x + 9$

10. $-4(1 + c) + 3 = -8c$

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

Simplifying and Solving Equations (E) Answers

Name: _____

Date: _____

Determine the value of the unknown in each equation.

1. $-4 - 9p = 7p + 6$

$$p = -\frac{5}{8}$$

2. $3w + 4 = 8w + 1$

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

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

$$z = 0$$

4. $6 + t = -9 + 2t$

$$t = 15$$

5. $-2(4 + 3j) - 1 = 6j$

$$j = -\frac{3}{4}$$

6. $-2(3f - 1) = 4f - 7$

$$f = \frac{9}{10}$$

7. $-9 - 7q = 1 + 4q$

$$q = -\frac{10}{11}$$

8. $-8 - 8r = 4 - 2r$

$$r = -2$$

9. $-2(1 - 3v) = -6v - 5$

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

10. $-4(1 + c) + 3 = -8c$

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

11. $7n - 2 = -7n - 8$

$$n = -\frac{3}{7}$$

12. $9 - 7m = -1 + m$

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

13. $1 - 8k = 5k - 8$

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

14. $-7h + 1 = -4h - 8$

$$h = 3$$

15. $3 + 4s = 7 + 2s$

$$s = 2$$

16. $1 - 9a = -1 + 6a$

$$a = \frac{2}{15}$$

17. $1 - 5d = -7 - 3d$

$$d = 4$$

18. $-9 + 7g = -g + 8$

$$g = 2\frac{1}{8}$$

19. $-3(x - 3) = 2x + 9$

$$x = 0$$

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

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