

Math 8

11.3 Solving Eq. with 2 Var.

Name _____

Date _____

Solve.

1. $28 - 3c = 25$

2. $-47 = -3x - 8$

3. $9h - 25 = -25$

4. $156 = 8u - 132$

5. $-44 = 26d - 200$

6. $15 = 14 - \frac{a}{7}$

7. $\frac{1}{10}d + 20 = 16$

8. $\frac{2y}{5} + 5 = -9$

9. $-\frac{8}{3}c - 2 = 6$

10. $20 = \frac{4n}{7} + 8$

11. $-85 = 11c - (-6c)$

12. $\frac{4}{5}d - \frac{2}{5}d = \frac{1}{10}$

13. $50 = 16w + 14w$

14. $14y - 5y = 9$

15. $78 = 7a - 10a$

16. $-64 = x + (-9x)$

17. $0 = 12r + (-16r)$

18. $-99 = -8c + 17c$

19. $12y - 12y = -5$

20. $\frac{3}{7}a + \frac{6}{7}a = 18$

21. $4y - 10 = 3y$

22. $2c = 4c - 6$

23. $5 - 3w = 2w$

24. $6d = 4d - 8$

25. $9k - 12 = -5k$

26. $3 + 5y = 9y$

27. $7r - 5 = 2r + 5$

28. $3m - 2 = 2m + 4$

29. $4p + 7 = 5p + 4$

30. $4y + 3 = 2y - 7$

31. $6 - 2g = 3g + 6$

32. $6u + 7 - 3u = 8 + 5u - 11$

33. $7 - 3t + 4 = 5t - 1 + 4t$

34. $5w + 2 - 8w = 5 - 3w + 1$

35. $20 - 4u + 3 = 5u - 8 + 2u$

36. $2(4 - c) = 3(2 - c)$

37. $2(3u + 10) = 5(4 - 2u)$

38. $7(3k - 8) = -4(6k + 3)$

39. $6(4 - 3s) = -2(5 + 9s)$

40. $3(x + 6) + 2x - 6 = 8x - 2(2x - 4)$

Answer List

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|-------------------|---------------------|-------------------|
| 1. 1 | 2. 13 | 3. 0 |
| 4. 36 | 5. 6 | 6. -7 |
| 7. -40 | 8. -35 | 9. -3 |
| 10. 21 | 11. -5 | 12. $\frac{1}{4}$ |
| 13. $\frac{5}{3}$ | 14. 1 | 15. -26 |
| 16. 8 | 17. 0 | 18. -11 |
| 19. \emptyset | 20. 14 | 21. 10 |
| 22. 3 | 23. 1 | 24. -4 |
| 25. $\frac{6}{7}$ | 26. $\frac{3}{4}$ | 27. 2 |
| 28. 6 | 29. 3 | 30. -5 |
| 31. 0 | 32. 5 | 33. 1 |
| 34. \emptyset | 35. $\frac{31}{11}$ | 36. -2 |
| 37. 0 | 38. $\frac{44}{45}$ | 39. \emptyset |
| 40. -4 | | |

Catalog List

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|----------------|---------------|----------------|
| 1. ALG GC 40 | 2. ALG GC 36 | 3. ALG GC 58 |
| 4. ALG GC 80 | 5. ALG GC 87 | 6. ALG GC 99 |
| 7. ALG GC 100 | 8. ALG GC 101 | 9. ALG GC 102 |
| 10. ALG GC 103 | 11. ALG GE 2 | 12. ALG GE 52 |
| 13. ALG GE 6 | 14. ALG GE 12 | 15. ALG GE 14 |
| 16. ALG GE 16 | 17. ALG GE 27 | 18. ALG GE 24 |
| 19. ALG GE 34 | 20. ALG GE 45 | 21. ALG GF 1 |
| 22. ALG GF 4 | 23. ALG GF 5 | 24. ALG GF 7 |
| 25. ALG GF 12 | 26. ALG GF 15 | 27. ALG GF 17 |
| 28. ALG GF 18 | 29. ALG GF 24 | 30. ALG GF 26 |
| 31. ALG GF 35 | 32. ALG GF 65 | 33. ALG GF 72 |
| 34. ALG GF 81 | 35. ALG GF 88 | 36. ALG GF 91 |
| 37. ALG GF 94 | 38. ALG GF 99 | 39. ALG GF 101 |
| 40. ALG GF 115 | | |