

Math 8

HW 11.2 Solving Two Step Eq's

Name _____

Date _____

Solve.

1. $13 = y + 20$

2. $-11 = n - 12$

3. $p + 17 = 9$

4. $m - 15 = -4$

5. $w - 14 = -20$

6. $k - 26 = -37$

7. $-58 = y - 16$

8. $n + \frac{1}{2} = \frac{5}{2}$

9. $-\frac{7}{4} + p = \frac{9}{4}$

10. $\frac{10}{3} = b + \frac{1}{3}$

11. $\frac{3}{5} = r - \frac{2}{5}$

12. $-\frac{3}{10} + a = \frac{2}{5}$

13. $\frac{1}{2} = x + \frac{3}{8}$

14. $y - \frac{2}{3} = \frac{5}{6}$

15. $c + \frac{1}{4} = \frac{7}{12}$

16. $8 + 6x = 50$

17. $-3n + 48 = 0$

18. $28 + 6q = 28$

19. $-26 = 6t - 2$

20. $-17 + 3b = -9$

21. $-28 + 17w = -11$

22. $61 = 5y + 56$

23. $28h - 15 = 15$

24. $156 = 8u - 132$

25. $-111 = 9a - 12$

26. $-44 = 26d - 200$

27. $-44k - 2 = -6$

28. $\frac{k}{8} + 6 = -3$

29. $20 = \frac{4n}{7} + 8$

30. $15 - \frac{3}{2}x = 12$

31. $\frac{4}{7} + 2m = 2$

32. $2z + 5 = \frac{9}{5}$

33. $\frac{7a}{6} + \frac{4}{3} = \frac{1}{3}$

34. 29 is the sum of r and 54. Solve for r .

35. 24 more than a number is 80. Find the number.

36. When 24 is subtracted from b , the result is -80 . Find b .

37. 12 less than k is -8 . Find k .

38. 48 is equal to eight times the quantity r minus 9. Find r .

39. Four less than one-fifth of a number is -16 . What is the number?

40. When 86 is subtracted from ten times a certain number, the result is 34. What is the number?
41. When 70 is subtracted from four times a certain number, the result is -10 . What is the number?
42. Ten less than two-thirds of a number is 20. What is the number?
43. Fourteen minus half a number is -31 . What is the number?
44. If you take the number 3 and add it to itself " x " number of times and then add 17 at the very end, the sum will be 110. How many times did you add the 3 to itself?
45. Jimmy got a bottle of jelly beans from his mom and had to split it equally with his two brothers. When Jimmy complained that he doesn't have enough, his younger brother gave him 20 more. If Jimmy now has 113 jelly beans, how many were originally in the bottle?

Answer List

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|-------------------|---------------------|--------------------|
| 1. -7 | 2. 1 | 3. -8 |
| 4. 11 | 5. -6 | 6. -11 |
| 7. -42 | 8. 2 | 9. 4 |
| 10. 3 | 11. 1 | 12. $\frac{7}{10}$ |
| 13. $\frac{1}{8}$ | 14. $\frac{3}{2}$ | 15. $\frac{1}{3}$ |
| 16. 7 | 17. 16 | 18. 0 |
| 19. -4 | 20. $\frac{8}{3}$ | 21. 1 |
| 22. 1 | 23. $\frac{15}{14}$ | 24. 36 |
| 25. -11 | 26. 6 | 27. $\frac{1}{11}$ |
| 28. -72 | 29. 21 | 30. 2 |
| 31. $\frac{5}{7}$ | 32. $-\frac{8}{5}$ | 33. $-\frac{6}{7}$ |
| 34. -25 | 35. 56 | 36. -56 |
| 37. 4 | 38. 15 | 39. -60 |
| 40. 12 | 41. 15 | 42. 45 |
| 43. 90 | 44. 90 | 45. 90 |

Catalog List

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|----------------|----------------|----------------|
| 1. ALG GA 26 | 2. ALG GA 50 | 3. ALG GA 25 |
| 4. ALG GA 52 | 5. ALG GA 53 | 6. ALG GA 54 |
| 7. ALG GA 69 | 8. ALG GA 133 | 9. ALG GA 134 |
| 10. ALG GA 135 | 11. ALG GA 136 | 12. ALG GA 137 |
| 13. ALG GA 138 | 14. ALG GA 139 | 15. ALG GA 140 |
| 16. ALG GC 18 | 17. ALG GC 15 | 18. ALG GC 26 |
| 19. ALG GC 35 | 20. ALG GC 63 | 21. ALG GC 70 |
| 22. ALG GC 71 | 23. ALG GC 76 | 24. ALG GC 80 |
| 25. ALG GC 85 | 26. ALG GC 87 | 27. ALG GC 92 |
| 28. ALG GC 98 | 29. ALG GC 103 | 30. ALG GC 104 |
| 31. ALG GC 116 | 32. ALG GC 118 | 33. ALG GC 141 |
| 34. ALG HA 1 | 35. ALG HA 13 | 36. ALG HA 21 |
| 37. ALG HA 39 | 38. ALG HA 103 | 39. ALG HA 115 |
| 40. ALG HA 125 | 41. ALG HA 126 | 42. ALG HA 116 |
| 43. ALG HA 102 | 44. | 45. |