

Practice 4-3

Mixed Exercises

Solve and check each equation. If there is no solution, explain.

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|---------------------------|----------------------|------------------------|--------------------------|
| 1. $13 = n + 3 $ | 2. $ a = 9.5$ | 3. $ d - 25 = -13$ | 4. $ 6z + 3 = 21$ |
| 5. $ d = 8.1$ | 6. $ 3v = 39$ | 7. $\frac{ t }{9} = 3$ | 8. $6.8 = 4h $ |
| 9. $ 3c - 45 = -18$ | 10. $ 7w + 15 = 36$ | 11. $3.8 = k $ | 12. $-32 = n - 38$ |
| 13. $-2 = \frac{ z }{-7}$ | 14. $ u = 2.7$ | 15. $12 + a = 19$ | 16. $7\frac{1}{8} = f $ |
| 17. $-4 7 + d = -44$ | 18. $ x = -0.8$ | 19. $ d + 18 = 12$ | 20. $11.3 = n $ |

Model with an equation and solve.

- The average number of seeds in a package of cucumber seeds is 25. The number of seeds in the package can vary by three. What are the maximum and minimum number of seeds that could be in a package?
- The mean distance of the earth from the sun is 93 million mi. The distance varies by 1.6 million mi. What are the maximum and minimum distances of the earth from the sun?
- Leona was in a golf tournament last week. All of her four rounds of golf were within 2 strokes of par. If par was 72, what are the maximum and minimum scores that Leona could have made in the golf tournament?
- Victor has a goal of making \$75 per week at his after-school job. Last month he was within \$6.50 of his goal. What are the maximum and minimum amounts that Victor might have made last month?
- Members of the track team can run 400 m in an average time of 58.2 s. The fastest and slowest times varied from the average by 6.4 s. What were the maximum and minimum times for the track team?

Solve and check each equation. If there is no solution, explain.

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| 26. $\frac{3}{4} = \frac{ c }{12}$ | 27. $-44 = -4 r $ | 28. $\frac{3}{8} = t $ | 29. $41 = k + 32 $ |
| 30. $ 13 + n = 15$ | 31. $0.6 y = 4.2$ | 32. $ r + 3 = 5$ | 33. $ 11h = 55$ |
| 34. $6.4 = 1.6 r $ | 35. $15 m = 45$ | 36. $7 = s - 3$ | 37. $19 = k + 13 $ |
| 38. $6\frac{3}{7} = t $ | 39. $ v + 17 = 29$ | 40. $ 9f = 81$ | 41. $ m = 9\frac{1}{9}$ |
| 42. $19 = -23 + k $ | 43. $1.6 y = 8.8$ | 44. $ k - 3 = 4$ | 45. $ h - 6 = -5$ |
| 46. $ w = -7\frac{2}{3}$ | 47. $5 m = 5$ | 48. $17 = s - 8$ | 49. $ v = \frac{7}{9}$ |