

Practice 3-5

Mixed Exercises

Solve each equation. Check your answers.

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|---|--------------------------------|--|
| 1. $\frac{s+6}{3} = 9$ | 2. $-\frac{2}{5}n = -10$ | 3. $\frac{1}{2}a - \frac{1}{3}a = -2$ |
| 4. $\frac{1}{6} = \frac{2}{3}v - \frac{1}{2}$ | 5. $\frac{3}{5}s = -15$ | 6. $\frac{5-4b}{5} = -3$ |
| 7. $\frac{2}{3}x - 9 = \frac{1}{3}$ | 8. $\frac{2}{5}y = -8$ | 9. $\frac{2a+5}{9} = -3$ |
| 10. $\frac{2}{3}r - \frac{1}{2}r = -5$ | 11. $\frac{1}{5}(3x - 6) = 6$ | 12. $-\frac{2}{3}k = 10$ |
| 13. $8 = -\frac{2}{5}(d + 4)$ | 14. $6 = -\frac{3}{4}f$ | 15. $\frac{1}{3}h - \frac{1}{2} = \frac{1}{6}$ |
| 16. $\frac{7k+6-4k}{3} = -11$ | 17. $\frac{1}{4}(6 - 2z) = -5$ | 18. $\frac{3}{8}b - \frac{1}{4}b = 3$ |
| 19. $-\frac{3}{4}m = -6$ | 20. $\frac{5d-7-3d}{5} = -7$ | |

Use an equation to solve.

- Suppose you buy $1\frac{2}{3}$ lb of bananas for \$.65. How much do bananas cost per pound?
- Lopez spent $\frac{1}{3}$ of his vacation money for travel and $\frac{2}{5}$ of his vacation money for lodging. He spent \$1100 for travel and lodging. What is the total amount of money he spent on his vacation?
- On the first four days of the week, Ella took 30 min, 28 min, 34 min, and 31 min to get to school. If the average time for the week was 31 min, how long did Ella take to get to school on Friday?
- Suppose you spent $\frac{1}{2}$ of your money buying clothes and $\frac{1}{4}$ of your money for a gift. If you spent \$24, how much money did you have?
- Victoria weighs $\frac{5}{7}$ as much as Mario. If Victoria weighs 125 lb, how much does Mario weigh?

Solve each equation. Check your answers.

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| 26. $18 = \frac{c+5}{2}$ | 27. $\frac{2}{9}s = -6$ | 28. $\frac{1}{3}x = \frac{1}{2}$ |
| 29. $\frac{2}{3}g + \frac{1}{2}g = 14$ | 30. $\frac{3x+7}{2} = 8$ | 31. $\frac{2x-6}{4} = -7$ |
| 32. $\frac{2}{3}k + \frac{1}{4}k = 22$ | 33. $-\frac{4}{7}h = -28$ | 34. $-8 = \frac{4}{5}k$ |
| 35. $\frac{3}{4} - \frac{1}{3}z = \frac{1}{4}$ | 36. $-9 = \frac{3}{4}m$ | 37. $\frac{5}{6}c - \frac{2}{3}c = \frac{1}{3}$ |
| 38. $\frac{4}{5} = -\frac{4}{7}g$ | 39. $\frac{9x+6-4x}{2} = 8$ | 40. $-\frac{1}{6}d = -4$ |