

Practice 7-1

Solving Two-Step Equations

Solve each equation.

- | | |
|----------------------------------|---------------------------------|
| 1. $4x - 17 = 31$ _____ | 2. $15 = 2m + 3$ _____ |
| 3. $\frac{k}{3} + 3 = 8$ _____ | 4. $7 = 3 + \frac{h}{6}$ _____ |
| 5. $9n + 18 = 81$ _____ | 6. $5 = \frac{y}{3} - 9$ _____ |
| 7. $14 = 5k - 31$ _____ | 8. $\frac{t}{9} - 7 = -5$ _____ |
| 9. $\frac{v}{8} - 9 = -13$ _____ | 10. $25 - 13f = -14$ _____ |

Solve each equation using mental math.

- | | |
|----------------------------------|---------------------------------|
| 11. $3p + 5 = 14$ _____ | 12. $\frac{k}{2} - 5 = 1$ _____ |
| 13. $\frac{m}{7} - 3 = 0$ _____ | 14. $10v - 6 = 24$ _____ |
| 15. $8 + \frac{x}{2} = -7$ _____ | 16. $7 = 6r - 17$ _____ |

Choose the correct equation. Solve.

17. Tehira has read 110 pages of a 290-page book. She reads 20 pages each day. How many days will it take to finish?
- | | |
|----------------------|----------------------|
| A. $20 + 110p = 290$ | B. $20p + 290 = 110$ |
| C. $110 + 20p = 290$ | D. $290 = 110 - 20p$ |
- _____

Write an equation to describe the situation. Solve.

18. A waitress earned \$73 for 6 hours of work. The total included \$46 in tips. What was her hourly wage?
- _____
- _____
19. You used $6\frac{3}{4}$ c of sugar while baking muffins and nutbread for a class party. You used a total of $1\frac{1}{2}$ c of sugar for the muffins. Your nutbread recipe calls for $1\frac{3}{4}$ c of sugar per loaf. How many loaves of nutbread did you make?
- _____
- _____