3-5 Practice

Solving Two-Step Equations

Solve each equation. Check your solution.

1. $6p + 22 = 10$

2. $\dfrac{r}{3} - 4 = 2$

3. $5d - 9 = -24$

4. $21q - 11 = 10$

5. $\dfrac{v}{-6} + 1 = 0$

6. $7h + 20 = -8$

7. $8k - 40 = 16$

8. $\dfrac{w}{2} - 16 = 5$

9. $\dfrac{s}{4} - 5 = 1$

10. $\dfrac{x}{8} + 7 = 9$

11. $\dfrac{z}{10} - 20 = -20$

12. $\dfrac{r}{-2} + 11 = 15$

13. $9q + 10 = 118$

14. $\dfrac{n}{5} - 4 = -10$

15. $6w - 125 = 1$

16. $\dfrac{r}{3} - 16 = 2$

17. $9y - 11 - 5y = 25$

18. $20 - 15d = 35$

19. $\dfrac{u}{-9} - 8 = -4$

20. $-6h + 4 - 3 + h = 11$

21. $5p - 4p = 7$

22. $18 - \dfrac{x}{3} = -7$

23. $21 + 9j - 10 = -277$

24. $12b - 9 + 2b - b = -87$

25. $1 + \dfrac{a}{-9} - 4 = 0$

26. $4w - w - 26 = 19$

27. $5 - 4y + y - 1 = -23$

28. RENTAL AGREEMENTS A furniture rental store charges a down-payment of $100 and $75 per month for a table. Hilde paid $550 to rent the table. Solve $75n + 100 = 550$ to find the number of months Hilde rented the table.

29. BUSINESS At work, Jack must stuff 1000 envelopes with advertisements. He can stuff 12 envelopes in one minute, and he has 112 envelopes already finished. Solve $1000 = 12n + 112$ to find how many minutes it will take Jack to complete the task.

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Lesson 3-5