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## Practice

Solving Multi-Step Equations

Solve each equation. Check your answer.

1. $19-h-h=-13$
2. $14+6 a-8=18$
3. $25=7+3 k-12$
4. $5 n-16-8 n=-10$
5. $-34=v+42-5 v$
6. $x-1+5 x=23$
7. $42 j+18-19 j=-28$
8. $-49=6 c-13-4 c$
9. $-28+15-22 z=31$

Write an equation to model each situation. Then solve the equation.
10. General admission tickets to the fair cost $\$ 3.50$ per person. Ride passes cost an additional $\$ 5.50$ per person. Parking costs $\$ 6$ for the family. The total costs for ride passes and parking was $\$ 51$. How many people in the family attended the fair?
11. Five times a number decreased by 18 minus 4 times the same number is -36 . What is the number?

Solve each equation. Check your answer.
12. $6(3 m+5)=66$
13. $3(4 y-8)=12$
14. $-5(x-3)=-25$
15. $42=3(2-3 h)$
16. $-10=5(2 w-4)$
17. $3 p-4=31$
18. $-3=-3(2 t-1)$
19. $x-2(x+10)=12$
20. $-15=5(3 q-10)-5 q$
21. Angela ate at the same restaurant four times. Each time she ordered a salad and left a $\$ 5$ tip. She spent a total of $\$ 54$. Write and solve an equation to find the cost of each salad.
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## Practice (continued)

Solving Multi-Step Equations

Solve each equation. Choose the method you prefer to use. Check your answer.
22. $\frac{a}{7}+\frac{5}{7}=\frac{2}{7}$
23. $6 v-\frac{5}{8}=\frac{7}{8}$
24. $\frac{j}{6}-9=\frac{5}{6}$
25. $\frac{x}{3}-\frac{1}{2}=\frac{3}{4}$
26. $\frac{g}{5}+\frac{5}{6}=6$
27. $\frac{b}{9}-\frac{1}{2}=\frac{5}{18}$
28. $0.52 y+2.5=5.1$
29. $4 n+0.24=15.76$
30. $2.45-3.1 t=21.05$
31. $-4.2=9.1 x+23.1$
32. $11.3-7.2 f=-3.82$
33. $14.2=-6.8+4.2 d$
34. Reasoning Suppose you want to solve $-5=6 x+3+7 x$. What would you do as your first step? Explain.
35. Writing Describe two different ways to solve $-10=\frac{1}{4}(8 y-12)$.

Solve each equation. Round to the nearest hundredth if necessary.
36. $5+\frac{2 a}{-3}=\frac{5}{11}$
37. $\frac{3}{5}(p-3)=-4$
38. $11 m-(6 m-5)=25$
39. The sum of three integers is 228 . The second integer is 1 more than the first, and the third integer is 2 more than the first. Write an equation to determine the integers. Solve your equation. Show your work.
40. Can you solve the equation $\frac{2}{3}(4 x-5)=8$ by using the Division Property of Equality? Explain.

