$\qquad$
$\qquad$ Date $\qquad$

Solve each equation. Check your answer.

1. $2 n+3 n+7=-41$
2. $2 x-5 x+6.3=-14.4$
3. $2 z+9.75-7 z=-5.15$
4. $3 h-5 h+11=17$
5. $2 t+8-t=-3$
6. $6 a-2 a=-36$
7. $3 c-8 c+7=-18$
8. $7 g+14-5 g=-8$
9. $2 b-6+3 b=14$
10. $2(a-4)+15=13$
11. $7+2(a-3)=-9$
12. $13+2(5 c-2)=29$
13. $5(3 x+12)=-15$
14. $4(2 a+2)-17=15$
15. $2(m+1)=16$
16. $-4 x+3(2 x-5)=31$
17. $-6-3(2 k+4)=18$
18. $3(t-12)=27$
19. $-w+4(w+3)=-12$
20. $4=0.4(3 d-5)$
21. $-4 d+2(3+d)=-14$
22. $2 x+\frac{3}{4}(4 x+16)=7$
23. $2(3 a+2)=-8$
24. $5(t-3)-2 t=-30$
25. $5(b+4)-6 b=-24$
26. $\frac{2}{5}(5 k+35)-8=12$
27. $0.4(2 s+4)=4.8$
28. $\frac{2}{3}(9 b-27)=36$
29. $\frac{1}{2}(12 n-8)=26$
30. $0.5(2 x-4)=-17$
31. $18=\frac{c+5}{2}$
32. $\frac{2}{9} s=-6$
33. $\frac{1}{3} x=\frac{1}{2}$
34. $\frac{2}{3} g+\frac{1}{2} g=14$
35. $\frac{3 x+7}{2}=8$
36. $\frac{2 x-6}{4}=-7$
37. $\frac{2}{3} k+\frac{1}{4} k=22$
38. $-\frac{4}{7} h=-28$
39. $-8=\frac{4}{5} k$
40. $\frac{3}{4}-\frac{1}{3} z=\frac{1}{4}$
41. $-9=\frac{3}{4} m$
42. $\frac{5}{6} c-\frac{2}{3} c=\frac{1}{3}$
43. $\frac{4}{5}=-\frac{4}{7} g$
44. $\frac{9 x+6-4 x}{2}=8$
45. $-\frac{1}{6} d=-4$

Write an equation to model each situation. Then solve.
46. The attendance at a baseball game was 400 people. Student tickets cost
$\$ 2$ and adult tickets cost $\$ 3$. Total ticket sales were $\$ 1050$. How many tickets of each type were sold?
47. The perimeter of a pool table is 30 ft . The table is twice as long as it is wide. What is the length of the pool table?
48. 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?
49. Victoria weighs $\frac{5}{7}$ as much as Mario. Victoria weighs 125 lb. How much does Mario weigh?
50. Denise's cell phone plan is $\$ 29.95$ per month plus $\$ .10$ per minute for each minute over 300 minutes of call time. Denise's cell phone bill is $\$ 99.95$. For how many minutes was she billed?

