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## 2-4 Practice <br> Solving Equations with the Variable on Each Side

Solve each equation. Check your solution.

1. $5 x-3=13-3 x$
2. $-4 r-11=4 r+21$
3. $1-m=6-6 m$
4. $14+5 n=-4 n+17$
5. $\frac{1}{2} k-3=2-\frac{3}{4} k$
6. $\frac{1}{2}(6-y)=y$
7. $3(-2-3 x)=-9 x-4$
8. $4(4-w)=3(2 w+2)$
9. $9(4 b-1)=2(9 b+3)$
10. $3(6+5 y)=2(-5+4 y)$
11. $-5 x-10=2-(x+4)$
12. $6+2(3 j-2)=4(1+j)$
13. $\frac{5}{2} t-t=3+\frac{3}{2} t$
14. $1.4 f+1.1=8.3-f$
15. $\frac{2}{3} x-\frac{1}{6}=\frac{1}{2} x+\frac{5}{6}$
16. $2-\frac{3}{4} k=\frac{1}{8} k+9$
17. $\frac{1}{2}(3 g-2)=\frac{g}{2}$
18. $\frac{1}{3}(n+1)=\frac{1}{6}(3 n-5)$
19. $\frac{1}{2}(5-2 h)=\frac{h}{2}$
20. $\frac{1}{9}(2 m-16)=\frac{1}{3}(2 m+4)$
21. $3(d-8)-5=9(d+2)+1$
22. $2(a-8)+7=5(a+2)-3 a-19$
23. NUMBERS Two thirds of a number reduced by 11 is equal to 4 more than the number. Find the number.
24. NUMBERS Five times the sum of a number and 3 is the same as 3 times the difference of twice the number and 1 . What is the number?
25. NUMBER THEORY Tripling the greater of two consecutive even integers gives the same result as subtracting 10 from the lesser even integer. What are the integers?
26. GEOMETRY The formula for the perimeter of a rectangle is $P=2 \ell+2 w$, where $\ell$ is the length and $w$ is the width. A rectangle has a perimeter of 24 inches. Find its dimensions if its length is 3 inches greater than its width.
