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## Practice A

For use with pages 125-129

## Tell whether the given value of the variable is a solution of the equation.

1. $5+x+3=14 ; x=7$
2. $4 x+9 x+1=27 ; x=2$
3. $4(x+7)=16 ; x=-3$
4. $18-2(x-3)=26 ; x=1$

## Solve the equation. Check your solution.

5. $3 x+8+x=28$
6. $9 x+7-2 x=14$
7. $17+3 x-11=0$
8. $12 x-1-10 x=23$
9. $3(6-x)=27$
10. $-2(x+7)=16$
11. $-40=4(x-10)$
12. $20=-5(x+7)$
13. $-6(2 x+3)=42$
14. $2(11-4 x)=38$
15. $14 x-6-11 x=21$
16. $8+5 x-6=37$

Find the value of $\boldsymbol{x}$ for the given triangle, rectangle, or square.
17. Perimeter $=30$ units

19. Perimeter $=20$ units

18. Perimeter $=24$ units

20. Perimeter $=50$ units

21. The perimeter of a rectangular picture frame is 30 inches. The length of the frame is three less than twice the width. What are the dimensions of the frame?
22. You spend $\$ 91$ shopping for new clothes. You spend $\$ 24$ for a pair of jeans and $\$ 35$ for a pair of shoes. You also buy 4 shirts that each cost $d$ dollars. How much is each shirt?
23. You spend $\$ 55$ shopping for birthday gifts. You buy one of your friends a gift certificate for $\$ 15$, and your other friend a pair of shorts for $\$ 16$. You also buy your older brother 2 compact discs that each cost $d$ dollars. How much is each compact disc?

