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## LESSON <br> 2.5

## Practice A

For use with the lesson "Solve Equations with Variables on Both Sides"

## Describe each step used in solving the equation.

1. $10 x-7=4 x+5$
A. $6 x-7=5$
B. $\quad 6 x=12$
B. $5 x=5$
C. $\quad x=1$
2. $6(x+3)=5 x+8$
A. $6 x+18=5 x+8$
B. $x+18=8$
C. $\quad x=-10$
3. $3 x+6=-2 x+11$
A. $5 x+6=11$
4. $4(x-2)=7 x+1$
A. $4 x-8=7 x+1$
B. $-8=3 x+1$
C. $-9=3 x$
D. $-3=x$

Solve the equation and describe each step you use.
7. $6 p-3=4 p-1$
8. $10 a-2=7 a+4$
9. $5(m+2)=20$

Solve the equation, if possible.
10. $9 x-2=8 x+7$
11. $5 n-3=3 n+1$
12. $4 z-5=8 z+3$
13. $-a+4=a+6$
14. $w+8=w-3$
15. $2(y-3)=y+4$
16. $3(m+2)=8+m$
17. $6+x=6(x-5)$
18. $7(b+3)=7 b-4$
19. Dimensions of a Circular Flower Garden A flower garden has the shape shown. The diameter of the outer circle is three times the diameter of the inner circle. The lengths of the walkways are 8 feet long. What is the diameter of the inner circle?
20. Distance-Rate-Time Two cars travel the same distance. The first car travels at a rate of 50 miles per hour and reaches its destination in $t$ hours. The second car travels at of 50 miles per hour and reaches its destination in $t$ hours. The second car travels at
a rate of 60 miles per hour and reaches its destination 1 hour earlier than the first car. How long does it take for the first car to reach its destination?

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\begin{array}{|c}\hline \begin{array}{c}\text { Rate of } \\
\text { car } 1\end{array} \\
\hline\end{array}
$$ \begin{array}{c}Time for <br>

car 1\end{array}\right]=\)| Rate of |
| :---: |
| car 2 |$. \quad$| Time for <br> car 2 |
| :---: |

