## Lesson 4.6 ~ Simplifying and Solving Equations

Name $\qquad$ Period
Date $\qquad$
Solve each equation for the variable. Show your work and check your solution.

1. $5 x+4 x-6 x=24$
2. $8 y+5-4 y+1=46$
3. $33=5(x+8)+3$
4. $2 m+3(m-8)=1$
5. $p+p-2 p+4 p=-48$
6. $2(y+5)+3 y=25$
7. $\frac{1}{4} h+\frac{3}{4} h+\frac{1}{2} h+2=5$
8. $60=4(k+3)+2(k-3)$
9. $-2(d+1.4)-1.8=20.6$
10. $8-2(w+4)=10$
11. Tyler told his friend this riddle: "I am thinking of a number. Three times my number plus twice my number is twenty. What number am I thinking of?"
a. Write an equation that models Tyler's statement.
b. Solve the equation. What number was Tyler thinking of?
