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

## 2-3 <br> Practice <br> Form K <br> Solving Multi-Step Equations

Solve each equation. Check your answer.

1. $20+g+g=14$
2. $7+4 x-9=-6$
3. $-12=-5-6 n+11$
4. $t+10-4 t=-11$
5. $8=8 p+13-3 p$
6. $4 y-16+8 y=-4$

Write an equation to model each situation. Then solve the equation.
7. A plumber finished three jobs on Tuesday. The first two only cost the owner the $\$ 45$ trip fee because they took very little time to complete. For the third job, the plumber charged the trip fee plus 6 times his hourly rate. If the plumber received a total of $\$ 303$ for the day, what is the hourly rate?
8. Three times a number plus 12 minus 5 times the same number is 22 . What is the number?

Solve each equation. Check your answer.
9. $4(-2 d-3)=12$
10. $5(5 t-2)=-35$
11. $-2(a+6)=-22$
12. $60=6(6-2 n)$
13. $-14=-4(9 x-1)$
14. $-(5 z+12)=18$
$\qquad$
$\qquad$ Date $\qquad$

## 2-3

Practice (continued)
Form K
Solving Multi-Step Equations
15. Eli took the fleet of 8 vans for oil changes. All of the vans needed windshield wipers which cost $\$ 24$ per van. The total bill was $\$ 432$. Write an equation to find out what each oil change cost. Solve the equation.

Solve each equation. Choose the method you prefer. Check your answer.
16. $\frac{m}{3}+\frac{1}{3}=\frac{2}{3}$
17. $5 r-\frac{1}{5}=\frac{4}{5}$
18. $\frac{w}{9}-6=\frac{7}{9}$
19. $1.75 t-4.5=7.75$
20. $6 z+0.36=24.72$
21. $7.85-2.15 c=20.75$
22. Writing Describe the first step you would take in solving $12=7-3 x+5 x$. Explain.
23. Writing Describe how you would solve $-8=\frac{1}{9}(-9 t+27)$.

Solve each equation. Round to the nearest hundredth if necessary.
24. $11+\frac{4 x}{-5}=\frac{2}{3}$
25. $\frac{5}{7}(k+5)=-7$
26. Reasoning Can you solve the equation $\frac{3}{4}(6 x+9)=14$ by using the Division Property of Equality? Explain.

