Name: $\qquad$

## Solve:

1. $5 x+17=47$
2. $4 y+1=-15$
3. $16-z=12$
4. $\frac{1}{2} t+9=25$
5. $\frac{x+8}{4}=-10$
6. $\frac{a-4}{3}=5$
7. $4 c+2 c+6=24$
8. $\frac{2 x}{5}-\frac{3}{5}=\frac{11}{5}$
9. $8-6 g+15=19$
10. $5 k+9.3=21.8$
11. $3 x+13=x+1$
12. $q+7=2 q+5$
13. $8 n+24=3 n+59$
14. $\frac{5 c}{4}=\frac{2 c}{3}+7$

Solve for $\boldsymbol{y}$.
17. $y+5 x=9$
18. $y-7 x=1$
19. $2 y-8 x=12$
20. $1 / 2 x+2 y=8$

Simplify.
21. $7(8 a-4)+2 a$
22. $-9 x-7+3 x+4$
21. Holly earns $\$ 2$ for each window she cleans. Write an equation to show the relationship between the number of windows she cleans, $x$, and the amount she earns $y$.
22. A car rental company charges $\$ 39.99$ per day plus $\$ 0.20$ per mile. Jill rented a car for one day and the charges were $\$ 47.39$, before tax. Use $m$ for number of miles. Write an equation. Find how many miles Jill drove.
23. On his last three math tests, Mark scored 85,95 , and 80 . What grade must he get on his next test to have an average of 90 for all four tests? (Write an equation; then solve to find the answer.)

