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## 2-3 Practice

## Solving Multi-Step Equations

## Solve each problem by working backward.

1. Three is added to a number, and then the sum is multiplied by 4 . The result is 16 . Find the number.
2. A number is divided by 4 , and the quotient is added to 3 . The result is 24 . What is the number?
3. Two is subtracted from a number, and then the difference is multiplied by 5 . The result is 30 . Find the number.
4. BIRD WATCHING While Michelle sat observing birds at a bird feeder, one fourth of the birds flew away when they were startled by a noise. Two birds left the feeder to go to another stationed a few feet away. Three more birds flew into the branches of a nearby tree. Four birds remained at the feeder. How many birds were at the feeder initially?

## Solve each equation. Check your solution.

5. $-12 n-19=77$
6. $17+3 f=14$
7. $15 t+4=49$
8. $\frac{u}{5}+6=2$
9. $\frac{d}{-4}+3=15$
10. $\frac{b}{3}-6=-2$
11. $\frac{1}{2} y-\frac{1}{8}=\frac{7}{8}$
12. $-32-\frac{3}{5} f=-17$
13. $8-\frac{3}{8} k=-4$
14. $\frac{r+13}{12}=1$
15. $\frac{15-a}{3}=-9$
16. $\frac{3 k-7}{5}=16$
17. $\frac{x}{7}-0.5=2.5$
18. $2.5 g+0.45=0.95$
19. $0.4 m-0.7=0.22$

Write an equation and solve each problem.
20. Seven less than four times a number equals 13 . What is the number?
21. Find two consecutive odd integers whose sum is 116.
22. Find two consecutive even integers whose sum is 126 .
23. Find three consecutive odd integers whose sum is 117 .
24. COIN COLLECTING Jung has a total of 92 coins in his coin collection. This is 8 more than three times the number of quarters in the collection. How many quarters does Jung have in his collection?

