

1-4

Practice (continued)

Form K

Solving Equations

Solve each formula for the indicated variable.

14. $A = \frac{1}{2}bh$, for b

15. $P = 2w + 2l$, for w

16. $A = \frac{1}{2}h(b_1 + b_2)$, for h

17. $S = 2\pi rh + 2\pi r^2$, for h

Solve each equation for y .

18. $ry - sy = t$

19. $\frac{3}{7}(y + 2) = g$

20. $\frac{y}{m} + 3 = n$

21. $\frac{3y - 1}{2} = z$

Solve each equation.

22. $(x - 3) - 2 = 6 - 2(x + 1)$

23. $4(a + 2) - 2a = 10 + 3(a - 3)$

24. $2(2c + 1) - c = -13$

25. $8u + 2(u - 10) = 0$

26. The first half of a play is 35 minutes longer than the second half of the play. If the entire play is 155 minutes long, how long is the first half of the play? Write an equation to solve the problem.