LESSON PRACTICE

15A

Follow the directions.

1. Solve for A. $AFG = H$

2. Solve for B. $AB = GF$

3. Solve for X. $\frac{X}{YZ} = \frac{P}{Q}$

4. Solve for Y. $\frac{X}{YZ} = \frac{A}{B}$

5. Solve for A. $C - A = D + B$

6. Solve for X. $X + Y + Z = B + A$

7. Solve for B. $\frac{B}{C+D} = 0$

8. Solve for G. $G(A + B) = D$

9. Solve for Y. $\frac{1}{Y} = \frac{X}{Z}$

10. Solve for R. $Q = RS + RT$

11. Solve for X. $R = \frac{2}{3}X + Y$

12. Solve for π. $B = 2\pi r h$

Follow the directions.

1. Solve for C. $F = \frac{9}{5}C + 32$

2. Solve for W_2. $\frac{W_1}{W_2} = \frac{L_2}{L_1}$

3. Solve for H. $A = 2\pi r (H + r)$

4. Solve for A. $\frac{1}{F} = \frac{1}{A} - \frac{1}{B}$

5. Solve for M_1. $F = K\frac{M_1M_2}{D_2}$

6. Solve for π. $A = 2\pi r h$

7. In '97 the Orioles were 56 (wins) and 25 (losses) at the halfway point in the season. What percent of the total games played were wins?

8. What percent of the games played were losses (#7)?

9. The Orioles finished with a won/lost record of 105-57. How many games were won in the second half? (See #7.)

10. What was the team's winning percentage in the second half of the season (#9)?

For #11–12, use the atomic weight table.

11. Find the percentage of nitrogen in NH_3.

12. Find the percentage of hydrogen in NH_3.

13. Tell the nature of the solution to $3X^2 - 7X + 2 = 0$ by using the discriminant.

14. Solve to find the exact root(s) of #13. Factor when possible.

15. Tell the nature of the solution to $5X^2 = 45$ by using the discriminant.

16. Solve to find the exact root(s) of #15. Factor when possible.

Find the roots using the quadratic formula.

17. $3X^2 + 2X = 0$

18. $4X^2 + 3 = 12X$

Solve for X.

19. $\frac{2X+1}{5} - X = \frac{4-3X}{4} - 2$

20. $\frac{4X}{9} - 1 = \frac{-5X}{12} + X$