Name Date

Formative Assessment

1.5

In Exercises 1–6, solve the literal equation for *y*.

1.  2. 

3.  4. 

5.  6. 

In Exercises 7–12, solve the literal equation for *x*.

7.  8. 

9.  10. 

11.  12. 

13. The total cost *C* (in dollars) to participate in a triathlon series is given by the literal equation  where *x* is the number of triathlons in which you participate.

a. Solve the equation for *x*.

b. In how many triathlons do you participate if you spend a total of $305? $665?

c. If your maximum annual triathlon cost is $1000, what is the maximum number of triathlons in which you could participate?

In Exercises 14–16, solve the formula for the indicated variable.

14. Force: ** Solve for *m*.

15. Volume of a cylinder:  Solve for *h*.

16. Perimeter of a triangle:  Solve for *b*.

17. You deposit $1500 in an account that earns simple interest at an annual rate of 3%.

a. How long must you leave the money in the account to earn $900 in interest?

b. The total amount (principle plus interest) in an account earning simple interest after *t* years is given by the formula  How much is in the account after 5 years?

c. Solve the equation in part (b) for *p*.

Name Date

Practice B

1.5

In Exercises 1–6, solve the literal equation for *y*.

1.  2. 

3.  4. 

5.  6. 

In Exercises 7–14, solve the literal equation for *x*.

7.  8. 

9.  10. 

11.  12. 

13.  14. 

15. Describe and correct the error in solving the equation for *x*.



In Exercises 16–18, solve the equation for the indicated variable.

16. Simple interest:  Solve for *r.*

17. Volume of a box:  Solve for *w*.

18. Heron's formula:  Solve for *b*.

19. Coulomb's Law is given by the formula



The force *F* between two charges *q*1 and *q*2 in a vacuum is proportional to the product of the charges, and is inversely proportional to the square of the distance *d* between the two charges. Solve the formula for *k*.

20. You deposit $800 in an account that earns simple interest at an annual rate of 5%. How long must you leave the money in the account to earn $100 in interest?