

LESSON  
1.4**Practice B**

For use with pages 26–32

**Substitute the given value of  $x$  into the equation. Then solve the equation for  $y$ .**

1.  $7x - 3y = 6; x = 3$

2.  $6x + 5y = -7; x = -2$

3.  $xy = 12 + 3x; x = 4$

4.  $\frac{2}{3}x = 2y - \frac{2}{3}; x = -9$

5.  $\frac{2}{3}y + \frac{1}{2}x = 1; x = 12$

6.  $x - 2y = 3xy + 1; x = -2$

**Solve the equation for  $y$ . Then find the value of  $y$  for the given value of  $x$ .**

7.  $3x - 6y = 6; x = 2$

8.  $-2x + 2 = 5y - 1; x = 5$

9.  $2xy + 1 = xy + 3; x = 2$

10.  $\frac{1}{2}x - y = \frac{3}{2}x - 3; x = 7$

11.  $\frac{3}{4}x + \frac{4}{7}y = \frac{5}{4}x - 1; x = 8$

12.  $\frac{3}{2}y - 4x = 3 - 2y; x = 9$

**Solve the formula for the indicated variable.**

13. *Fahrenheit to Celsius*

Solve for  $F$ :  $C = \frac{5}{9}(F - 32)$

14. *Perimeter of a Parallelogram*

Solve for  $b$ :  $P = 2b + 2s$

15. *Perimeter of a Triangle*

Solve for  $c$ :  $P = a + b + c$

16. *Area of a Rhombus*

Solve for  $d_1$ :  $A = \frac{1}{2}d_1d_2$

17. *Area of a Trapezoid*

Solve for  $b_1$ :  $A = \frac{1}{2}(b_1 + b_2)h$

18. *Volume of a Right Circular Cylinder*

Solve for  $h$ :  $V = \pi r^2h$

19. *Lateral Surface Area of a Right Circular Cylinder*

Solve for  $h$ :  $S = 2\pi rh$

20. *Volume of a Right Circular Cone*

Solve for  $h$ :  $V = \frac{\pi r^2h}{3}$

**Solve the formula for the indicated variable. Then use the given information to find the value of the variable. Include units of measure in the answer.**

21. *Area of a Parallelogram*

Solve for  $h$ :  $A = bh$

Find  $h$  when  $A = 81 \text{ cm}^2$  and  $b = 9 \text{ cm}$ .

22. *Celsius to Fahrenheit*

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

Find  $C$  when  $F = 77^\circ\text{F}$ .

**Basketball** A regulation size basketball has a volume of 455.9 cubic inches. Use this information to answer the following questions. Approximate your answers to the nearest tenth.

23. The formula for the volume of a sphere is  $V = \frac{4}{3}\pi r^3$ . What is the radius of the basketball?

24. What is the diameter of the basketball?

25. The formula for the circumference of the basketball is  $C = 2\pi r$ . If the circumference of a basketball is 29 inches, is it a regulation size basketball?

# Algebra 2 Chapter 6 Practice Workbook

**SA Adler**



## **Algebra 2 Chapter 6 Practice Workbook:**

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