Name _____ Date _____

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. $\frac{2}{3}x = 2y - \frac{2}{5}; x = -9$
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. $\frac{3}{5}y - 4x = 3 - 2y; x = 9$

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: $V = \pi r^2 h$

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

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 $b = 9$ cm.

22. *Celsius to Fahrenheit*

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

    Find C when $F = 77°\text{F}$.

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?

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