

1.4 Practice ASolve the equation for y .

1. $\frac{2}{5}x + y = 7$

2. $24 = 4x + 6y$

3. $5x - \frac{1}{2}y = 3$

4. $6\pi = x + 2y$

5. The formula $d = 2r$ can be used to find the distance d traveled after 2 hours when driving at rate r .

- Solve the formula for r .
- Find the rate r when the distance traveled is 130 miles.

Solve the equation for the bold variable.

6. $P = \mathbf{R} + C$

7. $p = \frac{\mathbf{X}}{N}$

8. $V = \frac{1}{3}\pi r^2 \mathbf{h}$

9. $A = \frac{1}{2}b \mathbf{h}$

10. The formula for the circumference of a circle with diameter d is $C = \pi d$.

- Solve the formula for d .
 - The circumference of a circle is 8 inches. What is the diameter of the circle?
 - The circumference of a circle is 6π inches. What is the radius of the circle?
11. The formula for the area of a rhombus with diagonals of lengths c and d is $A = \frac{1}{2}cd$.
- Solve the formula for c .
 - The area of a rhombus is 35 square feet. The length of one of the diagonals is 10 feet. What is the length of the other diagonal?
 - In a square (which is a rhombus), the lengths of the diagonals are the same. If a square has an area of 32 square feet, then what is the length of each diagonal?