

LESSON
2-5

Practice B
Solving for a Variable

Answer each of the following.

1. The formula $C = 2\pi r$ relates the radius r of a circle to its circumference C . Solve the formula for r .
2. The formula $y = mx + b$ is called the slope-intercept form of a line. Solve this formula for m .

Solve each equation for the variable indicated.

3. $4c = d$ for c
4. $n - 6m = 8$ for n
5. $2p + 5r = q$ for p

6. $-10 = xy + z$ for x
7. $\frac{a}{b} = c$ for b
8. $\frac{h - 4}{j} = k$ for j

Answer each of the following.

9. The formula $c = 5p + 215$ relates c , the total cost in dollars of hosting a birthday party at a skating rink, to p , the number of people attending.

a. Solve the formula $c = 5p + 215$ for p . _____

b. If Allie's parents are willing to spend \$300 for a party, how many people can attend? _____

10. The formula for the area of a triangle is $A = \frac{1}{2}bh$, where b represents the length of the base and h represents the height.

a. Solve the formula $A = \frac{1}{2}bh$ for b . _____

b. If a triangle has an area of 192 mm^2 , and the height measures 12 mm, what is the measure of the base? _____