1-4 Reteach to Build Understanding

Literal Equations and Formulas

1. For each literal equation, fill in the blanks to describe the steps you need to take to solve for the given variable.

   a. Solve $A = bh$ for b.

   $$\frac{A}{h} = \frac{bh}{h}$$
   $$b = \frac{A}{h}$$

   To solve for b, divide each side of the equation by _____.

   b. Solve $P = 2l + 2w$ for l.

   $$P - 2w = 2l + 2w - 2w$$
   $$\frac{P - 2w}{2} = \frac{2l}{2}$$
   $$\frac{P - 2w}{2} = l$$

   To solve for l, first subtract _____ from each side of the equation and then divide each side by _____.

2. Place an X next to the error made when solving the literal equation $ky + 3x = 8$ for y. What is the correct solution?

   $$ky + 3x = 8$$
   $$ky + 3x - 3x = 8 - 3x$$
   $$\frac{ky}{k} = \frac{8 - 3x}{k}$$
   $$y = \frac{8}{k} - 3x$$

3. For each equation, complete the missing steps to solve for x.

   a. $\frac{xy}{6} = w$

   _____

   $xy = 6w$

   _____

   $x =$ _____

   b. $y = \frac{1}{3}(x + w)$

   _____

   $3y = x + w$

   _____

   $x =$ _____