

Name: _____ Period: _____

1.4 -- Rewriting Equations and Formulas:

Solve each equation for y .

1) $y - 5 = -15$

2) $2y + 4 = 4y - 14$

Solve each *literal equation* for y .

3) $y - x = 1$

4) $2y + x = -8$

5) $\frac{2}{3}x + y = 3$

6) $16 = 8x + 4y$

7) $2y - 3x = y + 6$

8) $3x + \frac{1}{5}y = 7$

Solve each *literal equation* for the given variable.

9) $d = rt$ (solve for t)

10) $r - c = p$ (solve for r)

11) $V = Bh$ (solve for h)

12) $g = \frac{1}{2}(w + 40)$ (solve for w)

13) $P = 2W + 2L$ (solve for L)

14) $y = mx + b$ (solve for m)

15) To find an amount of income you use the formula: $P = I - E$. Where P represents the amount of profit, I represents the Income earned, and E represents Expenses paid by the company.

a) Solve the formula for I

b) If a company's expenses for a month are \$35,000 and they earn a profit of \$101,550 what was the company's total amount of income?

c) Why was it helpful to solve for I first when solving problem "b"?