ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 4A.2 – More Solving Literal Equations & Formulas

1. The formula to find the perimeter of a rectangle is P = 2l + 2w. Use this formula to find the width of a rectangle with perimeter 76 and length 28. Show your work.

$$P = 2l + 2w$$

2. Solve the formula P = 2l + 2w

$$P = 2l + 2w$$

$$-2l - 2l$$

$$\frac{\rho - 2l}{2} = \frac{2w}{2}$$

$$w = \frac{\rho}{2} - l$$

3. Use the new version of the formula you found in problem #2 to find the width of a rectangle with perimeter 76 and length 28. Show your

$$W = \frac{\rho}{2} - l$$

$$W = \frac{76}{2} - 28$$

No Algebra needed! Only anthmetic!

#4-9, Solve each equation for the indicated variable.

4. p = 2(4r - 5s), for r

+ 10< + 10<

$$\frac{8}{600} = \frac{8}{80}$$

5. $V = \frac{1}{2} \pi r^2 h^2$, for h

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

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

6. ad + 4c = -8c + 7, for d -4c -4c

$$\frac{ad}{a} = -\frac{12c + 7}{a}$$

$$d = \frac{-12c + 7}{a}$$

or
$$d = \frac{-12c}{a} + \frac{7}{a}$$

7. $\frac{-n}{c} - 5 = d$, for n

$$\frac{-\ln = cd + 5c}{-1}$$

8. $\frac{3w}{2} + q - \frac{w}{3} = w + 4q$, for w

9. $A = \frac{1}{2}h(b_1 + b_2)$, for b_2

$$2A = hb$$
, $+ hb_2$

$$\frac{2A-hb_1}{h} = \frac{hb_2}{h}$$

$$b_2 = \frac{2A}{h} - b_1$$