2-3 Formulas and Problems

No #s, but it works the same way.

$$2x + 4 = 6$$
$$-4 \quad -4$$
$$\frac{2x}{2} = \frac{2}{2}$$
$$x = 1$$

Ex 1 $V = lwh$ for h

Do the inverse (opposite) of the operations around "h".

$V = l \cdot w \cdot h$ multiplication

so divide to get "h" by itself.

$\frac{V}{lw} = \frac{lwh}{lw}$

$\frac{V}{lw} = h$

Ex 2 $3y - 2x = 7$ for y

Think $3y - 2 = 7$

$3y - 2x = 7$

$+2x \quad +2x$

$3y = 2x + 7$

Finish:

Ex 3 $A = \frac{1}{2}(B+b)h$ for b

{ $A = 2x$, you divide by 2 so the coefficient of $x = 1$ }

How do you make $\frac{1}{2} = 1$?

$\frac{1}{2} \cdot \quad = 1$

$$\left(\frac{2}{1}\right) A = \left(\frac{2}{1}\right) \frac{1}{2} (B + b) h$$

$$2A = (B + b) h$$