

Name _____ Date _____

Complex equations & Rewriting equations Worksheet

Concept 3 – Complex equations

DO I HAVE TO DISTRIBUTE?

DO I HAVE VARIABLES ON BOTH SIDES?

IS THE VARIABLE ISOLATED?

1) $-20 = -4x - 6x$

2) $6 = 1 - 2n + 5$

3) $8x - 2 = -9 + 7x$

4) $a + 5 = -5a + 5$

5) $4m - 4 = 4m$

6) $p - 1 = 5p + 3p - 8$

7) $5p - 14 = 8p + 4$

8) $2p - 4 = -4 + 2p$

9) $-8 = -(x + 4)$

10) $12 = -4(-6x - 3)$

11) $-18 - 6k = 6(1 + 3k)$

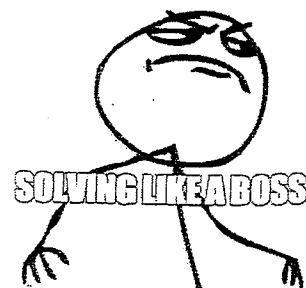
12) $5n + 34 = -2(1 - 7n)$

DO I HAVE TO CLEAN UP?

IS THE VARIABLE MULTIPLIED?

Concept 4 – Rewriting Equations

Rewrite each equation in terms of the indicated (Letter).



1) $P = IRT$ (T)

2) $A = 2(L + W)$ (W)

3) $y = 5x - 6$ (x)

4) $2x - 3y = 8$ (y)

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

6) $y = mx + b$ (b)

7) $A = \frac{x+y}{2}$ (y)

8) $R = \frac{E}{I}$ (E)

9) $V = LWH$ (L)

10) $12x - 4y = 20$ (y)

11) $V = \pi r^2 h$ (h)

12) $7x - y = 14$ (x)