

## Complex Distribution Equations Bonus

Solve each Complex Distribution Equation for 'x.' Answer to the nearest hundredth.

$$\begin{aligned}
 1) \text{ EXAMPLE: } & 5.5(-8.7x - 7.4) - 8.19 = -384.28 \\
 & -47.85x - 40.7 - 8.19 = -384.28 \\
 & -47.85x - 48.89 = -384.28 \\
 & \quad +48.89 \quad +48.89 \\
 & -47.85x = -335.39 \\
 & \quad /-47.85 \quad /-47.85 \\
 & x = 7.01
 \end{aligned}$$

I multiply my 5.5 by both parts in parentheses.  
I combine the like-terms.

I add 48.89 to both sides isolating x's.

I divide both sides by -47.85.

$$2) 8.5(2x + 5.6) + 4.87 = -84.4$$

$$3) 6 - 4.5(-7.4x - 34.2) = 130.6$$

$$4) -8.27(7.1x + 10.3) = -354.81$$

$$5) 83.4 = -6.2(-3x + 21.24) + 51.8$$

$$6) -3.38(8x + 5.15) - 6.13 = -93.04$$

$$7) 7.36(7.3x + 11.75) + 19.7 = 1265.4$$

$$8) 6.8(16.6x - 5) + 102.4 = 294.45$$

$$9) -0.88(x + 7) + 0.11 = 90.5$$

$$10) 8.78(-4.6x + 16.2) - 18.4 = -232.05$$

$$11) -31.5(6x - 17.85) - 10 = -924.55$$