

10.4 Modelling & Solving Two-Step Equations:

$$a(x+b)=c$$

April 7, 2016 9:42 AM

To solve an equation with brackets, multiply the terms in the brackets by the # on the outside

ex

$$4(x+8) = 36$$

$$4x + 32 = 36$$

$$-32 \quad -32$$

$$\frac{4x}{4} = \frac{4}{4}$$

$$x = 1$$

Ex #1

$$a) -4(x-7) = 16$$

$$-4x + 28 = 16$$

$$-28 \quad -28$$

$$\frac{-4x}{-4} = \frac{-12}{-4}$$

$$x = 3$$

$$b) -20 = 5(3+p)$$

$$-20 = 15 + 5p$$

$$-15 \quad -15$$

$$\frac{-35}{5} = \frac{5p}{5}$$

$$-7 = p$$

$$c) -2(x-3) = 12$$

$$-2x + 6 = 12$$

$$-6 \quad -6$$

$$\frac{-2x}{-2} = \frac{6}{-2}$$

$$x = -3$$

$$d) 18 = -6(x+2)$$

$$18 = -6x - 12$$

$$+12 \quad +12$$

$$\frac{30}{-6} = \frac{-6x}{-6}$$

$$-5 = x$$

pg 398 #6-13

