National 5 Homework : 1 year course
Equations & Inequalities

1. Solve:-

    (a) $9x - 1 = 7x + 15$ (b) $2(x + 3) = 11$ (c) $2(1 + 5x) = 3x + 51$

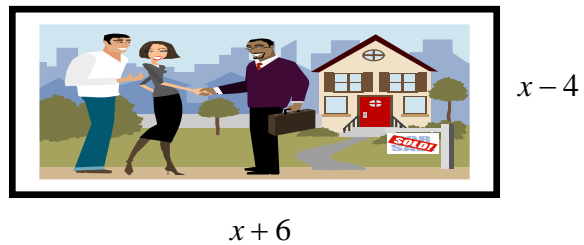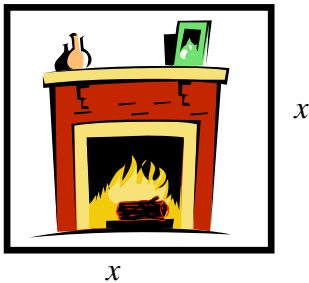2. By first eliminating the fraction solve these equations:-

    (a) $\dfrac{2}{3}x - 4 = 6$ (b) $\dfrac{2}{3}(2x + 4) = 2$ (c) $\dfrac{x + 2}{3} + \dfrac{x + 3}{4} = 1$

3. The photographs shown have the same area.

    Form an equation, and solve it to find the dimensions of each photograph.

    x

    x

    $x - 4$

    $x + 6$

4. Solve these inequalities:-

    (a) $5x + 8 \le 3x + 18$ (b) $2(2x + 4) \le 36 - 6x$ (c) $15 - 7x \ge 12 - x$