

1. Find the value of x in the following equations.

(a) $4x + 5 = 3x + 7$ (b) $5x - 6 = 4x - 2$

$4x - \quad = 7 - \quad$ $5x - \quad = -2 + \quad$

$x =$

$x =$

(c) $7x - 4 = 3x + 8$ (d) $5x + 7 = 3x - 1$

$7x - 3x =$ $=$
 $4x =$ $=$
 $x =$ $x =$

$x =$

$x =$

(e) $6x + 8 = 4(x + 3)$ (f) $6x + 7 = 2x - 13$

$6x + 8 = 4x +$ $6x - \quad = -13 -$

$6x - \quad = 12 -$ $= -20$

$2x =$ $=$

$x =$

$x =$

$x =$

(g) $5(x - 3) = 2x - 21$ (h) $6x - 3 = x - 3$

$x =$

$x =$

2. Write the following statements as equations then solve.

(a) Let the weight of a box of oranges be w kg.

Six boxes plus 12 kg weighs 102 kg.

Find the weight of a box of oranges.

$w = 102$

$w = \underline{102}$

$w =$

(b) Juan bought five batteries and received change of \$15 from \$50.

Use p as the price of the battery when writing and solving the equation.

$p =$

(c) Trinity and Meika went to a show, each taking the same amount of money.

Trinity bought 6 show bags and had \$8 change.

Meika bought 4 show bags and had \$22 change.

Let p represent the price of a show bag when writing and solving the equation.

$p =$