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

(a) $4x + 5 = 3x + 7$

4x - = 7 -

X =

(b) $5x - 6 = 4x - 2$

5x - = -2 +

X =

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

7x – 3x =

4x =

x = ———

X =

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

=

=

X = ———

X =

(e) $6x + 8 = 4(x + 3)$

6x + 8 = 4x +

6x - = 12 –

2x =

x = ——

X =

(f) $6x + 7 = 2x - 13$

6x - = -13 –

= -20

= ——

X =

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

X =

(h) $6x - 3 = x - 3$

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.

+ = 102

w = 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 =

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