

Master Maths 8 Worksheet 28  
Solving Equations 2

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Name: \_\_\_\_\_

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

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

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

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

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

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.

(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.

(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.