



# Equations Worksheet

1. Solve the equations for the unknown

a.  $x + 3 = 5$       b.  $x - 3 = 8$       c.  $x - 6 = -3$       d.  $6 + x = 12$   
e.  $2 + x + 4 = 6$       f.  $-x + 3 = 15$       g.  $y - 18 = 18$       h.  $9 + y = 0$

2. Solve the equations for the unknown

a.  $2x = 10$       b.  $5x = 100$       c.  $4x = -8$       d.  $-2y = -12$   
e.  $2x + 7 = 11$       f.  $3y - 5 = 19$       g.  $5y + 6 = 11$       h.  $2 + 2x = 8$   
i.  $9x + 9 = 9$       j.  $4y + 8 = 12$       k.  $3x - 7 = -10$       l.  $-3 - 2x = 9$

3. Solve the equations for the unknown. Remove the brackets first



a.  $2(x + 1) = 6$       b.  $3(x + 2) = 12$       c.  $4(x - 2) = 16$       d.  $3(x - 1) = 27$   
e.  $2(2x + 1) = 14$       f.  $3(6 + 3x) = 27$       g.  $5(2x - 2) = 30$       h.  $2(x - 1) = -6$   
i.  $-2(x - 1) = -6$       j.  $2 + 3(x + 6) = 23$       k.  $2(2x - 4) + 5 = 17$

4. Solve the equations for the unknown. Move all the unknowns onto the same side of the equation and all the numbers onto the other side

a.  $2x + 2 = x + 8$       b.  $3x + 5 = x + 9$       c.  $4x - 3 = 2x + 7$   
d.  $6y + 3 = 3y + 9$       e.  $5x - 3 = 4x - 2$       f.  $2 + 2x = x + 7$   
g.  $3x - 4 = 5x + 10$       h.  $2x - 3 = x - 3$       i.  $3 - 4x = 2x + 9$   
j.  $y - 3 = 7y - 21$       k.  $1 - x = -2x - 6$       l.  $9x - 3 = 7x + 12$   
m.  $5x = 3x - 21$       n.  $1 + 4x = 5 + 2x$       o.  $11x - 3 + x = 7x - 11$

5. Solve the equations for the unknown. Remove the brackets first

*a.*  $5(x+2) = 2(x+8)$     *b.*  $4(x-3) = 2(x-2)$     *c.*  $2(3x-3) = 12(x-2)$

*d.*  $3(x+4) = 3x+12$     *e.*  $5(2x-3) = 2(x+6)$     *f.*  $-2(x-3) = 3(x-7)$

*g.*  $2(4x+1) = 3(x+2)+5$     *h.*  $-(2x-3) = 2(x+1)$     *i.*  $2(x+5)+3x = 3(x-1)+x$