

## Solutions – Changing the Subject (A)

Make  $c$  the subject of the formula:  $a = 7(c + 1)$

$$c = a/7 - 1$$

Make  $b$  the subject of the formula:  $x = 3(b - 11)$

$$b = x/3 + 11$$

Make  $y$  the subject of the formula:  $b = 2y + 4$

$$y = (b - 4)/2$$

Make  $d$  the subject of the formula:  $y = 3d - 6$

$$d = (y + 6)/3$$

Make  $x$  the subject of the formula:  $a = 5(x + 4)$

$$x = a/5 - 4$$

Make  $c$  the subject of the formula:  $x = 3c - 10$

$$c = (x + 10)/3$$

## Solutions – Changing the Subject (B)

Make  $y$  the subject of the formula:  $d = 4(y + 8)$

$$y = d/4 - 8$$

Make  $x$  the subject of the formula:  $b = 7(x - 3)$

$$x = b/7 + 3$$

Make  $x$  the subject of the formula:  $y = 5x + 12$

$$x = (y - 12)/5$$

Make  $c$  the subject of the formula:  $b = 6c - 3$

$$c = (b + 3)/6$$

Make  $b$  the subject of the formula:  $y = 5(b + 11)$

$$b = y/5 - 11$$

Make  $y$  the subject of the formula:  $d = 4y - 7$

$$y = (d + 7)/4$$

## Solutions – Changing the Subject (C)

Make  $x$  the subject of the formula:  $y = 8(x + 9)$

$$x = y/8 - 9$$

Make  $c$  the subject of the formula:  $d = 6(c - 2)$

$$c = d/6 + 2$$

Make  $d$  the subject of the formula:  $c = 7d + 6$

$$d = (c - 6)/7$$

Make  $b$  the subject of the formula:  $x = 9b - 8$

$$b = (x + 8)/9$$

Make  $c$  the subject of the formula:  $d = 3(c + 12)$

$$c = d/3 - 12$$

Make  $b$  the subject of the formula:  $d = 8b - 6$

$$b = (d + 6)/8$$

## Solutions – Changing the Subject (D)

Make  $c$  the subject of the formula:  $a = 8(c + 8)$

$$c = a/8 - 8$$

Make  $x$  the subject of the formula:  $a = 7(x - 1)$

$$x = a/7 + 1$$

Make  $x$  the subject of the formula:  $y = 2x + 10$

$$x = (y - 10)/2$$

Make  $x$  the subject of the formula:  $b = 2x - 6$

$$x = (b + 6)/2$$

Make  $c$  the subject of the formula:  $x = 2(c + 7)$

$$c = x/2 - 7$$

Make  $b$  the subject of the formula:  $y = 5b - 5$

$$b = (y + 5)/5$$

## Solutions – Changing the Subject (E)

Make  $x$  the subject of the formula:  $d = 8(x + 4)$

$$x = d/8 - 4$$

Make  $y$  the subject of the formula:  $d = 9(y - 5)$

$$y = d/9 + 5$$

Make  $b$  the subject of the formula:  $d = 4b + 10$

$$b = (d - 10)/4$$

Make  $d$  the subject of the formula:  $y = 3d - 1$

$$d = (y + 1)/3$$

Make  $y$  the subject of the formula:  $c = 7(y + 5)$

$$y = c/7 - 5$$

Make  $c$  the subject of the formula:  $x = 4c - 4$

$$c = (x + 4)/4$$

## Solutions – Changing the Subject (F)

Make  $c$  the subject of the formula:  $d = 5(c + 10)$

$$c = d/5 - 10$$

Make  $x$  the subject of the formula:  $c = 4(x - 7)$

$$x = c/4 + 7$$

Make  $x$  the subject of the formula:  $a = 4x + 11$

$$x = (a - 11)/4$$

Make  $x$  the subject of the formula:  $d = 8x - 1$

$$x = (d + 1)/8$$

Make  $y$  the subject of the formula:  $b = 7(y + 4)$

$$y = b/7 - 4$$

Make  $y$  the subject of the formula:  $a = 3y - 10$

$$y = (a + 10)/3$$

## Solutions – Changing the Subject (G)

Make  $y$  the subject of the formula:  $d = 9(y + 9)$

$$y = d/9 - 9$$

Make  $x$  the subject of the formula:  $b = 7(x - 10)$

$$x = b/7 + 10$$

Make  $a$  the subject of the formula:  $c = 9a + 4$

$$a = (c - 4)/9$$

Make  $b$  the subject of the formula:  $c = 4b - 1$

$$b = (c + 1)/4$$

Make  $x$  the subject of the formula:  $c = 6(x + 2)$

$$x = c/6 - 2$$

Make  $y$  the subject of the formula:  $b = 2y - 11$

$$y = (b + 11)/2$$

## Solutions – Changing the Subject (H)

Make  $b$  the subject of the formula:  $d = 2(b + 1)$

$$b = d/2 - 1$$

Make  $x$  the subject of the formula:  $b = 7(x - 12)$

$$x = b/7 + 12$$

Make  $a$  the subject of the formula:  $y = 6a + 8$

$$a = (y - 8)/6$$

Make  $y$  the subject of the formula:  $d = 2y - 9$

$$y = (d + 9)/2$$

Make  $b$  the subject of the formula:  $y = 2(b + 11)$

$$b = y/2 - 11$$

Make  $d$  the subject of the formula:  $b = 6d - 4$

$$d = (b + 4)/6$$

## Solutions – Changing the Subject (I)

Make  $d$  the subject of the formula:  $x = 6(d + 2)$

$$d = x/6 - 2$$

Make  $y$  the subject of the formula:  $c = 6(y - 11)$

$$y = c/6 + 11$$

Make  $y$  the subject of the formula:  $a = 9y + 6$

$$y = (a - 6)/9$$

Make  $c$  the subject of the formula:  $d = 5c - 4$

$$c = (d + 4)/5$$

Make  $x$  the subject of the formula:  $c = 7(x + 11)$

$$x = c/7 - 11$$

Make  $c$  the subject of the formula:  $d = 8c - 9$

$$c = (d + 9)/8$$

## Solutions – Changing the Subject (J)

Make  $c$  the subject of the formula:  $d = 6(c + 1)$

$$c = d/6 - 1$$

Make  $x$  the subject of the formula:  $a = 7(x - 6)$

$$x = a/7 + 6$$

Make  $b$  the subject of the formula:  $y = 9b + 5$

$$b = (y - 5)/9$$

Make  $c$  the subject of the formula:  $d = 7c - 4$

$$c = (d + 4)/7$$

Make  $a$  the subject of the formula:  $c = 6(a + 12)$

$$a = c/6 - 12$$

Make  $y$  the subject of the formula:  $b = 5y - 6$

$$y = (b + 6)/5$$