CHANGING THE SUBJECT

CANSU OLCE

A STAR MATHS (www.astarmaths.com.au)

1) Make the letter in brackets the subject of the formula

a) $9t + y = 7C - 10A$ (y)

b) $7b - 11a = 2V - 7B$ (b)

c) $11 = \frac{a}{8}$ (a)

d) $2 = \frac{11s}{9}$ (s)

e) $10g = \frac{3y}{4W}$ (y)

f) $\frac{p}{2y} + 9P = 7A$ (y)

g) $r = T(c + d)$ (c)

h) $3 = \sqrt{7x}$ (x)

i) $\sqrt{11c + 3} = 2$ (c)

2) Make the letter in brackets the subject of the formula [12]

a) $9b + x = 9L + C$ (x)

b) $7x + 3t = 7T - 8d$ (x)

c) $9 = \frac{c}{12}$ (c)

d) $7 = \frac{11a}{9}$ (a)

e) $5V = \frac{8z}{m}$ (z)

f) $5S = \frac{D}{8v} + 3W$ (v)

g) $W(z + l) = u$ (z)

h) $\sqrt{11s} = 12$ (s)

i) $5 = \sqrt{10x + 7}$ (x)

j) $-w = \sqrt{-B + b}$ (b)

k) $72c^2 = q$ (c)

l) $-3 + x^2 = 26$ (x)

Solutions

1) a) $y = 7C - 10A - 9t$

b) $b = \frac{2V-7B+11a}{7}$

c) $a = 88$

d) $s = \frac{18}{11}$

e) $y = \frac{40Wg}{3}$

f) $y = \frac{p}{14A-18P}$

g) $c = \frac{r-Td}{T}$

h) $x = \frac{9}{7}$

i) $c = \frac{1}{11}$

j) $v = V^2 - m$

k) $s = \sqrt{\frac{d}{20}}$

l) $y = \sqrt{35}$

2) a) $x = 9L + C - 9b$

b) $x = \frac{7T-8d-3t}{7}$

c) $c = 108$

d) $a = \frac{63}{11}$

e) $z = \frac{5mV}{8}$

f) $v = \frac{D}{40S-24W}$

g) $z = \frac{u-Wl}{W}$

h) $s = \frac{144}{11}$

i) $x = \frac{9}{5}$

j) $b = w^2 + B$

k) $c = \sqrt{\frac{q}{72}}$

l) $x = \sqrt{29}$