**1** (c) Solve $4x - 7 = 37$

$4x = 37 + 7$ → Rearrange the equation to place the unknown on one side

$4 \div 4x = 44 \div 4$ (1)

$x = 11$ (1)

$x =$ 11

**(2)**

**(Total for Question 1 is 2 marks)**

**2** (c) Solve $2(5x - 4) = 21$

$2(5x - 4) = 21$

$10x - 8 = 21$ (1)

isolate $x$ terms on one side

$10x = 29$ (1)

$x = \frac{29}{10}$

$= 2.9$ (1)

$x =$ 2.9

(3)

**(Total for Question 2 is 3 marks)**

**3** (a) Solve $m - 3 = 4$

$m - 3 = 4$

$m = 4 + 3$ — isolate m on the left hand side

$m = 7$ (1)

$m =$ 7

**(1)**

(b) Solve $3n + n = 24$

$3n + n = 24$

$4n = 24$ — solve n on one side and numbers on one side.

$n = \frac{24}{4}$ (1)

$n = 6$ (1)

$n =$ 6

**(2)**

**(Total for Question 3 is 3 marks)**

**4** (b) Solve $5(2m - 6) = 40$

$\frac{5(2m-6)}{5} = \frac{40}{5}$ (1) – divide both sides by 5

$2m - 6 = 8$

$2m = 14$ (1) – isolate m term to one side

$m = 7$ (1)

$m =$ 7

**(3)**

**(Total for Question 4 is 3 marks)**

**5** Solve $4(2x - 3) = 20$

$4(2x-3) = 20$

(1) $8x - 12 = 20$

$8x = 20 + 12$ (1)

$= 32$

$\div 8$ $x = \frac{32}{8}$ $\div 8$

$x = 4$ (1)

$x =$ 4

**(Total for Question 5 is 3 marks)**

**6** Solve $2(4x - 5) = 18$

$2(4x - 5) = 18$

$(+10)\ 8x - 10 = 18\ (+10)$ (1)

$(\div 8)\ 8x = 28\ (\div 8)$

$x = \frac{28}{8} = 3.5$ (1) (1)

$$\begin{array}{r} 3.5 \\ 8\overline{)\,28} \\ -24 \\ \hline 40 \\ -40 \\ \hline \end{array}$$

$x =$ 3.5

**(Total for Question 6 is 3 marks)**