

*GBR*

gbr.cymru

***Hafaliadau @B19***

***Equations @Y9***

**L6 - L7**

$$\begin{array}{rclclcl}
 1 & 5x & + & 11 & = & x & + & 23 \\
 & & - & 11 & & & - & 11 \\
 & & & 5x & = & 1x & + & 12 \\
 & & & -1x & & -1x & & \\
 & & & 4x & = & 12 & & \\
 & & & \frac{4x}{4} & = & \frac{12}{4} & & \\
 & & & x & = & 3 & & 
 \end{array}$$

$$\begin{array}{rclclcl}
 2 & 7x & - & 17 & = & 2x & + & 8 \\
 & & + & 17 & & & + & 17 \\
 & & & 7x & = & 2x & + & 25 \\
 & & & -2x & & -2x & & \\
 & & & 5x & = & 25 & & \\
 & & & \frac{5x}{5} & = & \frac{25}{5} & & \\
 & & & x & = & 5 & & 
 \end{array}$$

$$\begin{aligned}
 3 \quad 9x + 11 &= 4x - 9 \\
 - 11 & \quad \quad - 11 \\
 9x &= 4x - 20 \\
 -4x & \quad \quad -4x \\
 5x &= -20 \\
 \frac{5x}{5} &= \frac{-20}{5} \\
 x &= -5
 \end{aligned}$$

$$\begin{aligned}
 4 \quad 24x - 7 &= 14x - 2 \\
 + 7 & \quad \quad + 7 \\
 24x &= 14x + 5 \\
 -14x & \quad \quad -14x \\
 10x &= 5 \\
 \frac{10x}{10} &= \frac{5}{10} \\
 x &= \frac{1}{2}
 \end{aligned}$$

## Ymarfer / Exercise

Ysgrifennwch bob cam or datrysiaid

*Write down every step of your solution*

- 1**     $2x + 4 = x + 5$
- 2**     $5x + 3 = x + 11$
- 3**     $3x + 5 = x + 11$
- 4**     $7x + 12 = x + 36$
- 5**     $3x + 14 = x + 10$
- 6**     $2x - 1 = x + 1$
- 7**     $4x - 5 = 2x + 3$
- 8**     $5x - 19 = 2x + 2$
- 9**     $6x - 23 = 2x + 5$
- 10**    $2x + 4 = 5x - 11$
- 11**    $3x + 5 = 7x - 27$
- 12**    $5x + 6 = 8x - 27$
- 13**    $9x + 19 = 5x - 1$
- 14**    $5x - 4 = 3x - 2$
- 15**    $7x - 34 = 9x - 48$

### **Estyniad/Extension**

$$1 \quad 9x + 4 = 3x + 6$$

$$2 \quad 22x + 5 = 14x + 9$$

$$3 \quad 24x - 1 = 6x + 2$$

$$4 \quad 48x - 23 = 8x + 7$$

$$5 \quad 56x + 9 = 84x - 11$$

### **Her/Challenge**

$$1 \quad 23x + 5 = 7x - 1$$

$$2 \quad 35x + 3 = 7x - 13$$

$$3 \quad 65x - 81 = 91x - 57$$

# Estymiad / Extension.

$$\textcircled{1} \quad 9x + 4 = 3x + 6$$

$$\quad \quad \quad - 4 \quad \quad \quad \quad \quad \quad - 4$$

$$\quad \quad \quad 9x = 3x + 2$$

$$\quad \quad \quad - 3x \quad \quad \quad - 3x$$

$$\quad \quad \quad 6x = 2$$

$$\quad \quad \quad \frac{6x}{6} = \frac{2}{6}$$

$$\quad \quad \quad x = \frac{2}{6}$$

$$\quad \quad \quad x = \frac{1}{3}$$