

LEVEL ONE

$$1) \quad 12 = x + 4$$

$$\begin{array}{r} -4 \quad -4 \\ \hline 8 = x \end{array}$$

$$2) \quad -13 = y - 2$$

$$\begin{array}{r} +2 \quad +2 \\ \hline -11 = y \end{array}$$

$$3) \quad \frac{12x}{12} = \frac{24}{12}$$

$$x = 2$$

$$4) \cdot \frac{x}{4} = 52 \cdot 4$$

$$x = 208$$

LEVEL TWO

$$1) \cdot \frac{x}{-2} = 34 \cdot -2$$

$$x = -68$$

$$2) \quad \frac{-30}{-4} = \frac{-4x}{-4}$$

$$\frac{30}{4} = \frac{15}{2} = x$$

$$3) \cdot 8 = \frac{x}{2} \cdot 2$$

$$16 = x$$

$$4) \quad \frac{15}{3} = \frac{3x}{3}$$

$$5 = x$$

LEVEL THREE

$$1) \cdot 9 = \frac{1}{3}x \cdot \frac{3}{1}$$

$$27 = x$$

$$2) \quad \frac{2}{3}x = 12$$

$$\frac{\frac{2}{3}}{\frac{2}{3}} = \frac{12}{\frac{2}{3}}$$

$$x = 18$$

$$3) \quad -4x - 2 = 10$$

$$\begin{array}{r} +2 \quad +2 \\ \hline -4x = 12 \\ \boxed{x = -3} \end{array}$$

$$4) \cdot \frac{x}{-10} = -20 \cdot -10$$

$$x = 200$$

LEVEL FOUR

1) $3x - 7 = 11$

$3x = 18$

$x = 6$

2) $16 = 4y - 4$

$+4 \quad +4$

$\frac{20}{4} = \frac{4y}{4}$

$y = 5$

3) $-1 = \frac{z}{3} - 7$

$+7 \quad +7$

$3 \cdot 6 = \frac{z}{3} \cdot 3$

$18 = z$

4) $10 = -3z - 8$

$+8 \quad +8$

$\frac{18}{-3} = \frac{-3z}{-3}$

$-6 = z$

LEVEL FIVE

1) $5x + 9 = 24$

$-9 \quad -9$

$5x = 15$

$x = 3$

2) $9y + 2 = 29$

$\frac{9y}{9} = \frac{27}{9}$

$y = 3$

3) $\frac{x}{4} - 3 = 5$

$4 \cdot \frac{x}{4} = 8 \cdot 4$

$x = 32$

4) $3 + 4(z + 5) = 31$

$3 + 4z + 20 = 31$

$23 + 4z = 31$

$4z = 8$

$z = 2$