

Solving Equations

LEVEL 4

$$\textcircled{1} \text{ (a) } x = -2 \quad \text{(b) } y = 5 \quad \text{(c) } z = -5$$

$$\textcircled{2} \text{ (a) } \begin{array}{l} 3x = 24 \\ x = 8 \end{array} \quad \text{(b) } \begin{array}{l} 4a = 16 \\ a = 4 \end{array} \quad \text{(c) } \begin{array}{l} 3x = 24 \\ x = 8 \end{array} \quad \text{(d) } \begin{array}{l} 4a = 16 \\ a = 4 \end{array}$$

$$\textcircled{3} \text{ (a) } x = 4 \quad \text{(b) } z = 7 \quad \text{(c) } y = 10 \quad \text{(d) } \begin{array}{l} 2x = 9 \\ x = \frac{9}{2} \end{array}$$

$$\text{(e) } \begin{array}{l} 5z = -5 \\ z = -1 \end{array} \quad \text{(f) } \begin{array}{l} 6y = 18 \\ y = 3 \end{array}$$

$$\textcircled{4} \text{ (a) } \begin{array}{l} 5x + 10 = 25 \\ 5x = 15 \\ x = 3 \end{array} \quad \text{(b) } \begin{array}{l} 10d - 80 = 20 \\ 10d = 100 \\ d = 10 \end{array} \quad \text{(c) } \begin{array}{l} 6x - 12 = 6 \\ 6x = 18 \\ x = 3 \end{array}$$

$$\text{(d) } \begin{array}{l} 20x + 8 = 108 \\ 20x = 100 \\ x = 5 \end{array} \quad \text{(e) } \begin{array}{l} 5x + 10 = 25 \\ x = 3 \end{array} \quad \text{(f) } \begin{array}{l} 10d - 80 = 20 \\ d = 10 \end{array}$$

$$\textcircled{5} \text{ (a) } \begin{array}{l} 4 + 3x - 9 = 13 \\ 3x = 18 \\ x = 6 \end{array} \quad \text{(b) } \begin{array}{l} 3 - 8 + 2x = 11 \\ 2x = 16 \\ x = 8 \end{array}$$

$$\textcircled{6} \text{ (a) } \begin{array}{l} 4x - 12 = 2x + 2 \\ 2x = 14 \\ x = 7 \end{array} \quad \text{(b) } \begin{array}{l} 7x + 7 = 2x + 22 \\ 5x = 15 \\ x = 3 \end{array}$$