

National 5**Equations and Inequations****Homework Marking Scheme – REL**

| | | | | |
|----|-----|---------------------------------------|---|-----------|
| 1. | (a) | $2x = 9$ | I | |
| | | $x = 4.5$ | I | |
| | (b) | $5z = -5$ | I | |
| | | $z = -1$ | I | |
| | (c) | $4y = 14$ | I | |
| | | $y = 3.5$ | I | [6 marks] |
| 2. | (a) | $6x - 12 = 6$ | I | |
| | | $x = 3$ | I | |
| | (b) | $6a - 6 = 4a + 8$ | I | |
| | | $2a = 14$ | I | |
| | | $a = 7$ | I | [5 marks] |
| 3. | (a) | $x > 6$ | I | |
| | (b) | $3x > -9$ | I | |
| | | $x > -3$ | I | [3 marks] |
| 4. | (a) | $3x \leq 9$ | I | |
| | | $x \leq 3$ | I | |
| | (b) | $5y - 10 > 2y + 8$ | I | |
| | | $3y > 18$ | I | |
| | | $y > 6$ | I | [5 marks] |
| 5. | (a) | $5x > -20$ | I | |
| | | $\{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$ | I | |
| | (b) | $9y + 18 \leq 7y + 28$ | I | |
| | | $2y \leq 10$ | I | |
| | | $\{-3, -2, -1, 0, 1, 2, 3, 4, 5\}$ | I | [5 marks] |