

National 5 Homework – Relationships

EQUATIONS and INEQUALITIES

1. Solve these equations

(a) $2x - 12 = -3$

(b) $5z + 9 = 4$

(c) $6y - 9 = 2y + 5$ (6)

2. Solve these equations by first multiplying out the brackets

(a) $3(2x - 4) = 6$

(b) $6(a - 1) = 4(a + 2)$ (5)

3. Solve these inequalities

(a) $7x > 42$

(b) $3x - 2 > -11$ (3)

4. Solve these inequalities

(a) $9x + 2 \leq 6x + 11$

(b) $5(y - 2) > 2(y + 4)$ (5)

5. Solve these inequalities, giving your answer from the set $\{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$

(a) $7x - 3 > 2x - 23$

(b) $9(y + 2) \leq 7(y + 4)$ (5)

24 marks

National 5 Homework – Relationships

EQUATIONS and INEQUALITIES

1. Solve these equations

(a) $2x - 12 = -3$

(b) $5z + 9 = 4$

(c) $6y - 9 = 2y + 5$ (6)

2. Solve these equations by first multiplying out the brackets

(a) $3(2x - 4) = 6$

(b) $6(a - 1) = 4(a + 2)$ (5)

3. Solve these inequalities

(a) $7x > 42$

(b) $3x - 2 > -11$ (3)

4. Solve these inequalities

(a) $9x + 2 \leq 6x + 11$

(b) $5(y - 2) > 2(y + 4)$ (5)

5. Solve these inequalities, giving your answer from the set $\{-3, -2, -1, 0, 1, 2, 3, 4, 5, 6\}$

(a) $7x - 3 > 2x - 23$

(b) $9(y + 2) \leq 7(y + 4)$ (5)

24 marks