National 5 Mathematics

Equations and Inequations - Questions

Marks are indicated in brackets after each question number

2015 Paper 1 Question 2, (3)

Solve algebraically the inequality

$$11-2(1+3x)<39$$

2016 Paper 1 Question 8, (3)

Solve the equation

$$\frac{2x}{3}-\frac{5}{6}=2x.$$

Give your answer in its simplest form.

2017 Paper 1 Question 8, (3)

Solve, algebraically, the inequality

$$19+x>15+3(x-2).$$

2018 Paper 2 Question 4, (3)

Solve, algebraically, the inequation

$$3x<6(x-1)-12.$$

2019 Paper 1 Question 14, (3)

Solve the equation $\frac{x}{2}-1=\frac{3-x}{5}$.

2023 Paper 1 Question 14, (3)

Solve, algebraically, the inequation $\frac{x+1}{3}-2>\frac{3x}{5}$.

2024 Paper 2 Question 4, (3)

Solve, algebraically, the inequation

$$5(x-2)+4<7x+8.$$

2025 Paper 2 Question 13, (3)

Solve the equation $\frac{5x+1}{2}=\frac{4x}{3}+1$.