National 5 Final Exam Practice	
Algebraic Skills	Equations and Inequalities
Average Allocation	3 Marks

1. Solve $\frac{x+10}{3} = 2x$

2. Solve 2(3x + 5) = 2 – 3x.

3. Solve $\frac{3(p+2)}{4p} = \frac{2}{3}$.

4. Solve $\frac{2p-3}{4} = \frac{2p}{5}$

5. Solve $\frac{3}{2x} = \frac{2}{x+2}$

6. Solve algebraically the inequality 1 - 3(x – 4) > (2x - 1).

7. Solve 3(3x + 1) < 3(5x + 3)

8. Solve $\frac{3x}{4} - \frac{5x}{12} = 2$.

9. Solve $\frac{2a}{5} + \frac{3a}{10} = 4$.

10. Solve algebraically the inequality 3(5 – 2x) ≤ 2(4 – x).

11. Solve 4(p – 4) < 3(2p + 3).

12. Solve algebraically the equation 8 - 6(2x +3) = 2(2x - 7).

13. Solve $\frac{2-x}{3} = \frac{3x}{4}$

14. Solve $\frac{1}{3} + \frac{5x}{6}$ = 3x

15. Solve $\frac{1}{2}(3x - 4) > \frac{1}{4}x$.

16. Solve $\frac{2x}{3} + \frac{5}{6} \geq 2x$

17. Solve algebraically the inequality 8 – 2(3 – x) > 4x

18. Solve $\frac{2x+5}{3} = \frac{3x}{7}$

19. Solve algebraically the inequality x + 12 < 3(3x + 2)

20. Solve algebraically the inequality x – 10 > 11 – 2(x + 3)