

PRE TEST – BACK TO BASICS
ADDITIONAL MATHEMATICS

NAME :

TIME: 1 HOUR

FORM :

1. $\frac{x}{4} + \frac{3}{x}$	2. $3a - \frac{a}{2}$
3. $8y = \frac{1}{4}$	4. $3m = 10 + \frac{m}{2}$
Expand the following expression (no 5 – 8) 5. $x (2x - 6)$	6. $(2x - 3)(x + 4)$
7. $\frac{1}{3}(6x - 9)$	8. $(2p + 5)^2$

9. Solve the equation $\frac{x+1}{4} = 3$	10. Solve the equation $\frac{16+n}{n} = 5$
11. Factorise completely $2m - 8n$	12. Factorise completely $6p^2 - pq$
13. Factorise completely $2x^2 - 50$	14. Factorise completely $4x^2 + 20x + 25$
15. Simplify $-5rs \times 4r$	16. Simplify $3p^2 \div 12pq$
17. Solve $x + 1 > 2(x - 3)$	18. Solve $\frac{n}{3} < 4$
19. Solve $4 - 2y > y + 8$	20. Solve $6 + x \geq 24$

Solve the following equation (question 21 to 24)

21. $3k - 10 = 17$

22. $12 = \frac{6x}{7}$

23. $\frac{x+3}{4} = \frac{3}{2}$

24. $\frac{k}{4} + 2 = 3$

25. Express x as a subject
 $y = 2x + 8$

26. Express k as a subject
 $2k - \frac{m}{2} = 5$