

Assessment Schedule – 2006**Mathematics: Manipulate algebraic expressions and solve equations (90284)****Evidence Statement**

	Achievement Criteria	No.	Evidence	Code	Judgement	Sufficiency
ACHIEVEMENT	Manipulate algebraic expressions.	1	$2x^3 - x^2 - 22x - 24$	A1	Or equivalent. Any order.	ACHIEVEMENT: 4 code A
		2	$4x^3$	A1	No alternative.	
		3	$\frac{3(x-1) + 2x^2}{x(x-1)}$ or $\frac{2x^2 + 3x - 3}{x^2 - x}$	A1	Or equivalent.	
	Solve equations.	4a	$x = -4, 0.5$	A2	Both answers required.	
		4b	$x < -2\frac{2}{3}$	A2	Accept the decimal equivalent.	
		4c	$x = 4$	A2	No alternative.	
ACHIEVEMENT WITH MERIT	Solve problems involving equations.	5	(3,-4) and (-4,3)	M or A	Both required.	ACHIEVEMENT WITH MERIT: Achievement plus two code M OR three code M
		6	3.46	M or A	Or equivalent. Accept any correct rounding.	
		7	5 hours 50 min or 6 hours	M or A	Accept decimal equivalent (5.83) with any correct rounding.	
ACHIEVEMENT WITH EXCELLENCE	Choose algebraic techniques and strategies to solve problem(s).	8	$x - y = 3$ $\frac{1}{y} - \frac{1}{x} = \frac{1}{90}$ 15 and 18	E or M or A	Must have correct equation(s).	ACHIEVEMENT WITH EXCELLENCE: Merit plus code E

Judgement Statement**Mathematics: Manipulate algebraic expressions and solve equations (90284)**

Achievement	Achievement with Merit	Achievement with Excellence
Manipulate algebraic expressions Solve equations. $4 \times A$	Solve problems involving equations. Achievement <i>plus</i> $2 \times M$ OR $3 \times M$	Choose algebraic techniques and strategies to solve problem(s). Merit <i>plus</i> $1 \times E$