

Assessment Schedule – 2008**Mathematics: Use straightforward algebraic methods and solve equations (90147)
Evidence Statement**

	Achievement Criteria	No	Evidence	Code	Judgement	Sufficiency
ACHIEVEMENT	Solve equations Use straightforward algebraic methods	1(a)	$x = 0, 4$	A1	Both required.	Achievement: Two of A1 and Two of A2
		1(b)	$t = -\frac{9}{4} = -2.25$	A1	Or equivalent.	
		2	$f = 21$	A1		
		3	$-x - 8$	A2		
		4	$(x + 50)$	A2		
		5	$A = 300 + 100m$	A2	Or equivalent.	
ACHIEVEMENT WITH MERIT	Use algebraic methods and solve equations in context.	6	$\frac{22m}{15}$	A2, M	Or equivalent.	Merit: Five A (at least two A1, and at least two A2) and Two M OR Three M
		7(a)	Volume $A = V - dx$	A2	Or equivalent.	
		7(b)	Each dripper used 27 litres that day	A1 M	Both answers required.	
		8	$x^2 + 8x - 9 = 0$ $(x + 9)(x - 1) = 0$ $x = -9$ or 1 Width of path = 1 m	A2 A1 M	No alternative. Or equivalent.	
ACHIEVEMENT WITH EXCELLENCE	Use algebraic strategies to investigate and solve problems.	9	Let x be number of students in first van. Let y be number of students in second van. $x - 2 = y + 2$ $y - 2 = \frac{1}{2}(x + 2)$ $x = 14, y = 10$ Total number of students is 24.	A2, M E		Excellence: Merit plus E

Judgement Statement

Achievement	Achievement with Merit	Achievement with Excellence
Use straightforward algebraic methods. Solve equations. 2 × A1 and 2 × A2	Use algebraic methods and solve equations in context. 5 × A (with at least 2 × A1 and 2 × A) plus 2 of code M or 3 × M	Use algebraic strategies to investigate and solve problems. Achievement with Merit plus code E

The following Mathematics-specific marking conventions may also have been used when marking this paper:

- Errors are circled.
- Omissions are indicated by a caret (^).
- **NS** may have been used when there was not sufficient evidence to award a grade.
- **CON** may have been used to indicate ‘consistency’ where an answer is obtained using a prior, but incorrect answer and **NC** if the answer is not consistent with wrong working.
- **CAO** is used when the ‘correct answer only’ is given and the assessment schedule indicates that more evidence was required.
- **#** may have been used when a correct answer is obtained but then further (unnecessary) working results in an incorrect final answer being offered.
- **RAWW** indicates right answer, wrong working.
- **R** for ‘rounding error’ and **PR** for ‘premature rounding’ resulting in a significant round-off error in the answer (if the question required evidence for rounding).
- **U** for incorrect or omitted units (if the question required evidence for units).
- **MEI** may have been used to indicate where a minor error has been made and ignored.
- **IMS** where an incorrect mathematical statement has been used.
- **PJ** where marker has seen enough evidence in the paper to meet the criteria.