Assessment Schedule – 2007

Mathematics: Use coordinate geometry methods (90287)

Evidence Statement

	Assessment Criteria	No.	Evidence	Code	Judgement	Sufficiency
ACHIEVEMENT	Use coordinate geometry methods.	1	$\sqrt{73} = 8.544$	A	Or equivalent.	**ACHIEVEMENT:** TWO A Replacement from Q4 - Q6 – need TWO different methods correct to gain achievement.
		2	(16,11)	A	Or equivalent.	
		3	$y - 5 = \frac{2}{3}(x - 2)$	A	Or equivalent.	
ACHIEVEMENT WITH MERIT	Solve problems involving coordinate geometry methods.	4	$\frac{7-k}{2-5} = \frac{k - -7}{5-9}$ $k = \frac{19}{7}$ (2.71428…)	AM	Must show working. Equivalent methods acceptable.	**ACHIEVEMENT WITH MERIT:** THREE A **plus** TWO M OR THREE M
		5(a)	dist(OB) $= \sqrt{(5-0)^2 + (12-0)^2}$ $= 13$ dist(OA) = 13	A M		
		5(b)	$m_{\overline{AB}} = -\frac{12}{8}$ $m\perp = \frac{2}{3}$ $y = \frac{2}{3}x$	A M		
ACHIEVEMENT WITH EXCELLENCE	Solve extended problems involving coordinate geometry methods.	6	$m = -\frac{4}{3}$ $m\perp = \frac{3}{4}$ point (0,5) lies on $4x + 3y = 15$ line $\perp$ through (0,5) is $y = \frac{3}{4}x + 5$ Intersection of this line with $4x + 3y = 5$ is (-1.6,3.8) dist $= \sqrt{(0-1.6)^2 + (5-3.8)^2}$ $= 2$	A M E	Must have supporting working and a logical argument.	**ACHIEVEMENT WITH EXCELLENCE:** MERIT **plus** E

Judgement Statement

Achievement	Achievement with Merit	Achievement with Excellence
Use coordinate geometry methods. $2 \times$ A	Solve problems involving coordinate geometry methods. $3 \times$ A *plus* $2 \times$ M *or* $3 \times$ M	Solve extended problems involving coordinate geometry methods. **Merit** *plus* 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.