Assessment Schedule - 2008

Mathematics: Solve straightforward trigonometric equations (90292)

Evidence Statement

	Assessment Criteria	No.	Evidence	Code	Judgement	Sufficiency
ACHIEVEMENT	Solve straight- forward trigonometric equations.	1(a) (b) (c)	30°, 330° 164.36°, 344.36° 0.1253, 3.0163	A A A	Both answers required for each question. OR equivalent. OR equivalent. OR equivalent. Degrees or radians accepted throughout.	ACHIEVEMENT: Two of Code A. Replacement Evidence: Any part of Questions 2, 3, 4.
ACHIEVEMENT WITH MERIT	Solve trigonometric equations.	2 3 4	1.107, 2.034, 4.249, 5.176 t = 1.78, 6.08 Time = 4.3 days 13.572 and 22.428 = 8.86 hours 24 - 8.86 = 15.14 hours	A M A M	OR equivalent OR equivalent OR equivalent (do not penalise premature rounding)	ACHIEVEMENT WITH MERIT: Achievement plus 2 of Code M OR all of Code M.
ACHIEVEMENT WITH EXCELLENCE	Solve multi- step trigonometric problems.	5	Model $R = 1200 - 400 \sin\left(\frac{\pi t}{6}\right)$ $t = 7.62 \text{ and } 10.38$ Answer = 2.8 months	M E	Must have clear explanation of the process being used to solve the problem.	ACHIEVEMENT WITH EXCELLENCE: Merit plus Code E.

Judgement Statement

Achievement	Achievement with Merit	Achievement with Excellence
Solve straight-forward trigonometric equations.	Solve straight-forward trigonometric equations.	Solve straight-forward trigonometric equations.
$2 \times A$	Achievement plus	Achievement with Merit plus
	$2 \times M$	1×E
	OR	
	all M	

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

- Errors are circled.
- Omissions are indicated by a caret (A).
- 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.