Assessment Schedule - 2006

Mathematics: Solve straightforward number problems in context (90151)

Evidence Statement

	Criteria	No.	ı	Evide	nce		Code	Judgement	Sufficiency
Achievement	Solve straightforward number problems in context.	1 2 3 4	$0.4 \times \$130 = \52 $0.06 \div 1.75 \times 100 = 3.4285$ $= 3.4\%$ $1 - \frac{1}{3} - \frac{1}{4} = 1 - \frac{7}{12} = \frac{5}{12}$ $40 \div 6 \times 0.75 = 5 \text{kg}$				A A A	Units are not required anywhere. Accept \$52.0 Any correct rounding / truncation anywhere. * Accept 3.5% Accept 0.41666 eg 0.41, or 0.42. Or equivalent.	2 of code A. Replacement evidence: Q 5, 6, 7, 8
Achievement with Merit	Solve number problems in context, involving manipulation, several steps or reversing processes.	5 6 7	\$2 430 ÷ 1.125 = \$2 160 \$28 500 ÷ 0.737 = \$38 670.28 ≈ \$38 670 \$1.0449 × 10 ⁹ ÷ (\$9.56 × 10 ⁸) = 1.09299 This is an increase of ≈ 9.3% OR % increase = $\frac{1.0449 \times 10^9 - 9.56 \times 10^8}{9.56 \times 10^8} \times 100$ = 9.299 ≈ 9.3%				A/M A/M	Units are not required anywhere. Any correct rounding / truncation. Accept any correct rounding / truncation with working. * Money-answers should not have more than 2 dp.	Achievement plus 2 of code M OR 3 of code M Replacement evidence: Q 8
Achievement with Excellence	Devise a strategy and solve a number problem.	8	Q 3.25% Q 1.3% Yr				A A M	Give code A for EITHER scheme value correct for 2½ years. Give code M when both scheme values are correct for 2½ years or There is 1 minor error late in the calculations of any scheme and then the conclusion is consistently correct For Excellence, calculations are needed to support the values of at least TWO possibilities, and a reasoned decision on which scheme is best. Accept other well-reasoned recommendations.	Achievement with Merit plus code E.

^{*} Re Rounding/truncation

Where correct working is given to support / show how an answer was obtained, then the comment "accept any rounding / truncation" applies. Money situations are an exception: more than 2 dp cannot generally be accepted as a correct answer in context.

Judgement Statement

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Achievement	Achievement with Merit	Achievement with Excellence
Solve straightforward number problems in context. 2 × A	Solve number problems in context involving manipulation, several steps or reversing processes. Achievement <i>plus</i> 2 × M OR 3 × M	Devise a strategy and solve a number problem. Merit plus 1 × E