National 5 Assessment		January	Marking Scheme
Question	Answer	Mark	Comment
1a	4.41 million	4	• evidence of 0.955 • correct multiplier of 0.955^4 • carry out calculation • correct rounding
1b	16.8% reduction	2	• reduction = 0.89(15….) • correct calculation
2	43	2	• start process / substitution • correct answer
3a.	$(x + 4)^2 - 21$	2	• evidence of $((x + 4)^2$ • evidence of -21
3b.	$x = -4$	1	• award 1 or 0
4.	$m = {-4}/{3}$; $c = -6 \ or \ (0, -6)$	2	• correctly rearrange to $y = mx + c$ • correctly state and $m \ and \ c$
5	1870 calories	3	• start process with 115% or 1.15 • evidence of correct scaling/division • correct answer (ignore rounding)
6a.	$(2x - 5)(x + 4)$	2	• $(2x - 5)$ • $(x + 4)$
6b.	$\dfrac{(2x + 5)}{(x + 4)}$	2	• $(2x + 5)(2x - 5)$ • Evidence of correct simplifying
7.	$x^3 + 4x^2 - 11x - 30$	3	• Correctly multiply out 2 brackets • Correctly multiply out 3rd bracket • Correct final answer
8a.	$9pq^{-4}$	2	• evidence of 9 $or \ p \ or \ q^4$ • correct answer
8b.	$\dfrac{3\sqrt{2}}{2}$	3	• begin process • express with rational denominator • simplify
9	$4y = -5x + 42$	3	• $m = -\dfrac{5}{4}$ • begin process with either point • correct answer
10a.	$2s + 3l = 15$	1	• award 1 or 0
10b.	$3s + l = 11.30$	1	• award 1 or 0
10c.	Small cappuccino costs £2.70 Large cappuccino costs £3.20	3	• Start to scale equations • Solve for small or large • Final answer (must include comm)
11.	$a = 4$	2	• evidence of 7a - 4 • correct answer
12.	AB = 22.78cm	3	• evidence of cosine rule • correct substitution and 518.9289.. • evaluate (ignore rounding)
	Total	41	