

N5 - Straight Line Official Homework Marking Scheme

Q1	$p = 2t + 3$	<ul style="list-style-type: none"> • $m = 2$ • $c = 3$ • Interpret equation
Q2	$T = \frac{1}{2}S - 2$	<ul style="list-style-type: none"> • $m = \frac{1}{2}$ • Substitution to find c $0 = \frac{1}{2} \times 4 + c$ or equivalent • $c = -2$ • Interpret equation
Q3	<p>(a) $m = 2$</p> <p>(b) $y = 2x - 5$</p> <p>(c) $k = 1$</p>	<ul style="list-style-type: none"> • $m = 2$ • $y = 2x - 5$ • substitution $k = 2 \times 3k - 5$ • Solve $k = 1$
Q4	$g = \frac{7}{9}h + 12$	<ul style="list-style-type: none"> • $(0,12)$ and $(90,82)$ • $m = \frac{7}{9}$ • $c = 12$ • Interpret equation
Q5	<p>(a) $m = -10$</p> <p>(b) $P = -10t + 160$</p> <p>(c) 17:00 hrs</p>	<ul style="list-style-type: none"> • $(8,160)$ and $(10,140)$ or equivalent • $m = -10$ or $m = -0.1$ • $c = 160$ or 240 • Interpret equation • Substitute $P = 70$ $70 = -10t + 160$ or $70 = -0.1t + 240$ • $t = 9$ or $t = 1700$ • Interpret conclusion