MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 17

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 If $y = 2x + 7$, find y when $x = 5$. (2)

$10 + 7 = \mathbf{17}$ ✓✓ (2)

2 If $y = 5x - 3$, find y when $x = 4$. (2)

$20 - 3 = \mathbf{17}$ ✓✓ (2)

3 If $y = 5x - 3$, find x when $y = 32$. (2)

$5x = 35 \rightarrow \mathbf{x = 7}$ ✓✓ (2)

4 If $y = 4x + 1$, find x when $y = 21$. (2)

$4x = 20 \rightarrow \mathbf{x = 5}$ ✓✓ (2)

5 Rule: ×3 then +4. Find the output for input 6. (2)

$18 + 4 = \mathbf{22}$ ✓✓ (2)

6 Find the rule: 1→4, 2→7, 3→10. (2)

Differences of $3 \rightarrow \mathbf{y = 3x + 1}$ ✓✓ (2)

7 Find the rule: 1→2, 2→4, 3→6. (1)

$\mathbf{y = 2x}$ ✓ (1)

8 If $y = x^2 - 2$, find y when $x = 6$. (2)

$36 - 2 = \mathbf{34}$ ✓✓ (2)

9 Write "multiply by 5 then subtract 1" as a formula. (2)

$\mathbf{y = 5x - 1}$ ✓✓ (2)

TOTAL: 17 marks

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