GRADE 8 · FUNCTIONS AND RELATIONSHIPS

Functions & Relationships: Flow Diagrams, Tables and Formulae

WORKSHEET

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

Date: .....

MARK ____ / 12

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Rule: $\times 2 + 5$. Find the output when the input is 6. (1)

2 Rule: $y = 4x - 3$. Find y when $x = 5$. (2)

3 Rule: $y = 4x - 3$. Find x when $y = 17$. (2)

4 Rule: $\times 10$. Complete: $3 \rightarrow$ ___ and ___ $\rightarrow 70$ (2)

5 Find the rule: $1 \rightarrow 3$, $2 \rightarrow 5$, $3 \rightarrow 7$, $4 \rightarrow 9$ (2)

6 Find the rule: $1 \to 6$, $2 \to 12$, $3 \to 18$ **(1)**

7 Rule: $y = x^2 + 1$. Find y when $x = 4$. **(2)**

TOTAL: 12 marks

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