



## SUBSTITUTION MULTIPLE VARIABLES

## NO CALCULATOR

Ref: G212. **3F1**

|   |   |  |  |
|---|---|--|--|
| <b>A1</b> If $a = 3$ and $b = 8$<br>Find the value of<br>$a + b$    | <b>A2</b> If $a = 10$ and $b = 4$<br>Find the value of<br>$a - b$         | <b>A3</b> If $a = 8$ and $b = 12$<br>Find the value of<br>$b - a$            | <b>A4</b> If $a = 5$ and $b = 6$<br>Find the value of<br>$a + b + 3$       |
| <b>B1</b> If $a = 7$ and $b = 2$<br>Find the value of<br>$ab$       | <b>B2</b> If $a = 2$ and $b = 5$<br>Find the value of<br>$4ab$            | <b>B3</b> If $a = 15$ and $b = 3$<br>Find the value of<br>$\frac{a}{b}$      | <b>B4</b> If $a = 9$ and $b = 3$<br>Find the value of<br>$\frac{a+b}{a-b}$ |
| <b>C1</b> If $a = 4$ and $b = 7$<br>Find the value of<br>$2a + b$   | <b>C2</b> If $a = 6$ and $b = 5$<br>Find the value of<br>$a + 2b$         | <b>C3</b> If $a = 5$ and $b = 1$<br>Find the value of<br>$3a + 2b$           | <b>C4</b> If $a = 9$ and $b = 2$<br>Find the value of<br>$2a - 3b$         |
| <b>D1</b> If $a = 8$ and $b = 3$<br>Find the value of<br>$2(a + b)$ | <b>D2</b> If $a = 5$ and $b = 3$<br>Find the value of<br>$(a - b)(a + b)$ | <b>D3</b> If $a = 2$ and $b = 8$<br>Find the value of<br>$(a + b) - (b - a)$ | <b>D4</b> If $a = 7$ and $b = 5$<br>Find the value of<br>$(a + 3)(b - 5)$  |
| <b>E1</b> If $a = 4$ and $b = 9$<br>Find the value of<br>$a^2 + b$  | <b>E2</b> If $a = 2$ and $b = 5$<br>Find the value of<br>$(a + b)^2$      | <b>E3</b> If $a = 6$ and $b = 3$<br>Find the value of<br>$a^2 + b^2$         | <b>E4</b> If $a = 3$ and $b = 2$<br>Find the value of<br>$a^2 b^2$         |



## SUBSTITUTION MULTIPLE VARIABLES

## NO CALCULATOR

Ref: G212. **3F1**

|  |  |   |   |
|--|--|---|---|
| <b>A1</b> If $a = 3$ and $b = 8$<br>Find the value of<br>$a + b$<br>$3 + 4 = 7$                | <b>A2</b> If $a = 10$ and $b = 4$<br>Find the value of<br>$a - b$<br>$10 - 4 = 6$                          | <b>A3</b> If $a = 8$ and $b = 12$<br>Find the value of<br>$b - a$<br>$12 - 8 = 4$                       | <b>A4</b> If $a = 5$ and $b = 6$<br>Find the value of<br>$a + b + 3$<br>$5 + 6 + 3 = 14$                        |
| <b>B1</b> If $a = 7$ and $b = 2$<br>Find the value of<br>$ab$<br>$7 \times 2 = 14$             | <b>B2</b> If $a = 2$ and $b = 5$<br>Find the value of<br>$4ab$<br>$4 \times 2 \times 5 = 40$               | <b>B3</b> If $a = 15$ and $b = 3$<br>Find the value of<br>$\frac{a}{b} = \frac{15}{3} = 5$              | <b>B4</b> If $a = 9$ and $b = 3$<br>Find the value of<br>$\frac{a+b}{a-b} = \frac{9+3}{9-3} = \frac{12}{6} = 2$ |
| <b>C1</b> If $a = 4$ and $b = 7$<br>Find the value of<br>$2a + b$<br>$2 \times 4 + 7 = 15$     | <b>C2</b> If $a = 6$ and $b = 5$<br>Find the value of<br>$a + 2b$<br>$6 + 2 \times 5 = 16$                 | <b>C3</b> If $a = 5$ and $b = 1$<br>Find the value of<br>$3a + 2b$<br>$3 \times 5 + 2 \times 1 = 17$    | <b>C4</b> If $a = 9$ and $b = 2$<br>Find the value of<br>$2a - 3b$<br>$2 \times 9 - 3 \times 2 = 12$            |
| <b>D1</b> If $a = 8$ and $b = 3$<br>Find the value of<br>$2(a + b)$<br>$2 \times (8 + 3) = 22$ | <b>D2</b> If $a = 5$ and $b = 3$<br>Find the value of<br>$(a - b)(a + b)$<br>$(5 - 3) \times (5 + 3) = 16$ | <b>D3</b> If $a = 2$ and $b = 8$<br>Find the value of<br>$(a + b) - (b - a)$<br>$(2 + 8) - (8 - 2) = 4$ | <b>D4</b> If $a = 7$ and $b = 5$<br>Find the value of<br>$(a + 3)(b - 5)$<br>$(7 + 3) \times (5 - 5) = 0$       |
| <b>E1</b> If $a = 4$ and $b = 9$<br>Find the value of<br>$a^2 + b$<br>$4^2 + 9 = 25$           | <b>E2</b> If $a = 2$ and $b = 5$<br>Find the value of<br>$(a + b)^2$<br>$(2 + 5)^2 = 49$                   | <b>E3</b> If $a = 6$ and $b = 3$<br>Find the value of<br>$a^2 + b^2$<br>$6^2 + 3^2 = 45$                | <b>E4</b> If $a = 3$ and $b = 2$<br>Find the value of<br>$a^2 b^2$<br>$3^2 \times 2^2 = 9 \times 4 = 36$        |