



INDICES

MULTIPLYING EXPRESSIONS

NO CALCULATOR

Ref: G221. **1F1**

A1 Write in index form: $a \times a \times a$	A2 Write in index form: $a \times a \times a \times a$	A3 Write in index form: $a \times a$	A4 Write in index form: $a \times a \times a + a \times a \times a \times a$
B1 Write in index form: $a \times a \times a \times b \times b$	B2 Write in index form: $a \times a \times a \times a \times b \times b \times b$	B3 Write in index form: $a \times a \times b \times b \times b \times b$	B4 Write in index form: $a \times a \times a \times b + b \times b \times c$
C1 Write in index form: $a \times b \times a \times b \times b$	C2 Write in index form: $a \times a \times b \times a \times b \times b \times b$	C3 Write in index form: $b \times a \times b \times a \times b \times a \times b$	C4 Write in index form: $a \times b \times a + c \times a \times b \times c \times a$
D1 Simplify $a^2 \times a$	D2 Simplify $a^2 \times a^3$	D3 Simplify $a^3 \times a \times b^2 + b^2 \times b$	D4 Simplify $a^2 \times b^2 \times a \times b^4 \times a^2$
E1 Simplify $2 \times a \times a \times 2 \times b \times b \times b$	E2 Simplify $2 \times a \times b \times a \times 2 \times a \times 3 \times b$	E3 Simplify $2 \times a^2 \times b \times 3 \times a^3 \times b \times 4$	E4 Simplify $a^2 \times b^2 \times 2 \times a + 3 \times c^2 \times c$



INDICES

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Note the '+' signs in A4, B4, C4, D3 and E4

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A1 Write in index form: $a \times a \times a$ a^3	A2 Write in index form: $a \times a \times a \times a$ a^4	A3 Write in index form: $a \times a$ a^2	A4 Write in index form: $a \times a \times a + a \times a \times a \times a$ $a^3 + a^4$
B1 Write in index form: $a \times a \times a \times b \times b$ a^3b^2	B2 Write in index form: $a \times a \times a \times a \times b \times b \times b$ a^4b^3	B3 Write in index form: $a \times a \times b \times b \times b \times b$ a^2b^4	B4 Write in index form: $a \times a \times a \times b + b \times b \times c$ $a^3b + b^2c$
C1 Write in index form: $a \times b \times a \times b \times b$ a^2b^3	C2 Write in index form: $a \times a \times b \times a \times b \times b \times b$ a^3b^4	C3 Write in index form: $b \times a \times b \times a \times b \times a \times b$ a^3b^4	C4 Write in index form: $a \times b \times a + c \times a \times b \times c \times a$ $a^2b + a^2bc^2$
D1 Simplify $a^2 \times a$ a^3	D2 Simplify $a^2 \times a^3$ a^5	D3 Simplify $a^3 \times a \times b^2 + b^2 \times b$ $a^4b^2 + b^3$	D4 Simplify $a^2 \times b^2 \times a \times b^4 \times a^2$ a^5b^6
E1 Simplify $2 \times a \times a \times 2 \times b \times b \times b$ $4a^2b^3$	E2 Simplify $2 \times a \times b \times a \times 2 \times a \times 3 \times b$ $12a^3b^2$	E3 Simplify $2 \times a^2 \times b \times 3 \times a^3 \times b \times 4$ $24a^5b^2$	E4 Simplify $a^2 \times b^2 \times 2 \times a + 3 \times c^2 \times c$ $2a^3b^2 + 3c^3$