



B'DMAS

SQUARES AND CUBES

NO CALCULATOR

Ref: G134. **1F1**

A1 Work out $4^2 + 3$	A2 Work out $4 + 3^2$	A3 Work out $4^2 \times 3$	A4 Work out 4×3^2
B1 Work out $4^2 + 3 - 2$	B2 Work out $4 + 3^2 - 2$	B3 Work out $4 + 3 - 2^2$	B4 Work out $4 + 3 \times 2^2$
C1 Work out $4^3 - 3 + 2$	C2 Work out $4 - 3 + 2^3$	C3 Work out $4 \times 3^3 + 2$	C4 Work out $4 - 3^3 \times 2$
D1 Work out $5^2 + 4 \times 3 + 2$	D2 Work out $5 + 4^2 \times 3 + 2$	D3 Work out $5 + 4 \times 3^2 + 2$	D4 Work out $5 + 4 \times 3 + 2^2$
E1 Work out $4^2 + 3^2$	E2 Work out $4^2 + 3^2 - 2^2$	E3 Work out $5^2 + 4 \times 3 + 2^2$	E4 Work out $5^2 + 4 \times 3^2 - 2^3$



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A1 Work out $\begin{aligned} 4^2 + 3 &= 16 + 3 \\ &= 19 \end{aligned}$	A2 Work out $\begin{aligned} 4 + 3^2 &= 4 + 9 \\ &= 13 \end{aligned}$	A3 Work out $\begin{aligned} 4^2 \times 3 &= 16 \times 3 \\ &= 48 \end{aligned}$	A4 Work out $\begin{aligned} 4 \times 3^2 &= 4 \times 9 \\ &= 36 \end{aligned}$
B1 Work out $\begin{aligned} 4^2 + 3 - 2 &= 16 + 3 - 2 \\ &= 19 - 2 \\ &= 17 \end{aligned}$	B2 Work out $\begin{aligned} 4 + 3^2 - 2 &= 4 + 9 - 2 \\ &= 13 - 2 \\ &= 11 \end{aligned}$	B3 Work out $\begin{aligned} 4 + 3 - 2^2 &= 4 + 3 - 4 \\ &= 7 - 4 \\ &= 3 \end{aligned}$	B4 Work out $\begin{aligned} 4 + 3 \times 2^2 &= 4 + 3 \times 4 \\ &= 4 + 12 \\ &= 16 \end{aligned}$
C1 Work out $\begin{aligned} 4^3 - 3 + 2 &= 64 - 3 + 2 \\ &= 61 + 2 \\ &= 63 \end{aligned}$	C2 Work out $\begin{aligned} 4 - 3 + 2^3 &= 4 - 3 + 8 \\ &= 1 + 8 \\ &= 9 \end{aligned}$	C3 Work out $\begin{aligned} 4 \times 3^3 + 2 &= 4 \times 27 + 2 \\ &= 108 + 2 \\ &= 110 \end{aligned}$	C4 Work out $\begin{aligned} 4 - 3^3 \times 2 &= 4 - 27 \times 2 \\ &= 4 - 54 \\ &= -50 \end{aligned}$
D1 Work out $\begin{aligned} 5^2 + 4 \times 3 + 2 &= 25 + 12 + 2 \\ &= 37 + 2 \\ &= 39 \end{aligned}$	D2 Work out $\begin{aligned} 5 + 4^2 \times 3 + 2 &= 5 + 16 \times 3 + 2 \\ &= 5 + 48 + 2 \\ &= 53 + 2 \\ &= 55 \end{aligned}$	D3 Work out $\begin{aligned} 5 + 4 \times 3^2 + 2 &= 5 + 4 \times 9 + 2 \\ &= 5 + 36 + 2 \\ &= 41 + 2 \\ &= 43 \end{aligned}$	D4 Work out $\begin{aligned} 5 + 4 \times 3 + 2^2 &= 5 + 12 + 4 \\ &= 17 + 4 \\ &= 21 \end{aligned}$
E1 Work out $\begin{aligned} 4^2 + 3^2 &= 16 + 9 \\ &= 25 \end{aligned}$	E2 Work out $\begin{aligned} 4^2 + 3^2 - 2^2 &= 16 + 9 - 4 \\ &= 25 - 4 \\ &= 21 \end{aligned}$	E3 Work out $\begin{aligned} 5^2 + 4 \times 3 + 2^2 &= 25 + 12 + 4 \\ &= 37 + 4 \\ &= 41 \end{aligned}$	E4 Work out $\begin{aligned} 5^2 + 4 \times 3^2 - 2^3 &= 25 + 4 \times 9 - 8 \\ &= 25 + 36 - 8 \\ &= 61 - 8 \\ &= 53 \end{aligned}$