

MATC9 Ch01.3 Key Concepts 3 Order of Operations Worked Example

Example: Evaluate $5(2 + 1)^3$.

Solution: According to BEDMAS, you must evaluate the brackets first, then the exponent, and then the multiplication.

$$\begin{aligned}5(2 + 1)^3 &= 5(3)^3 \\ &= 5 \times 27 \\ &= 135\end{aligned}$$

Practice:

1. Evaluate $3^2 + 2(5 + 2)^2$.
2. Evaluate $6 - \sqrt{169 - 144}$.

Answers: 1. 107 2. 1