

Exercise 26

In the following exercises, simplify each expression.

$$5(2 + 8 \cdot 4) - 7^2$$

Solution

Remember the order of operations: parentheses, exponents, multiplication, division, addition, subtraction.

$$\begin{aligned} 5(2 + 8 \cdot 4) - 7^2 &= 5(2 + 32) - 7^2 \\ &= 5(34) - 7^2 \\ &= 5(34) - 49 \\ &= 170 - 49 \\ &= 121 \end{aligned}$$