

BODMAS: Order of Operations

Order of Operations

BODMAS is used to help you remember the order of operations for solving problems. The order is shown below:

B	B rackets
O	O rder (powers, square roots)
D M	D ivision and M ultiplication (read from left to right)
A S	A ddition and S ubtraction (read from left to right)

EXAMPLE: Evaluate $(6 - 2 \times 2 + 2) \times 4 - 2$

$$(6 - 2 \times 2 + 2) \times 4 - 2 \quad \text{Focus on the brackets first}$$

$$(6 - 2 \times 2 + 2) \times 4 - 2 \quad \text{Multiplication next}$$

$$(6 - 4 + 2) \times 4 - 2$$

$$(6 - 4 + 2) \times 4 - 2 \quad \text{Addition and Subtraction}$$

$$(4) \times 4 - 2$$

$$4 \times 4 - 2 \quad \text{Multiplication again}$$

$$16 - 2$$

$$16 - 2 \quad \text{Subtraction again}$$

$$14 \quad \text{Final answer}$$

Instructions: Evaluate the expressions below.

1

$$4 \times 2^2 \div (11 - 9)$$



2

$$(19 + 7) \div 2 + (20 \div 4)$$

3

$$81 \div 3^2 \times (12 \div 6)^2$$

4

$$(48 \div 6 + 13) \times 3 - 3$$

5

$$18 \div 2 \times 6 - 5 \times 5$$

6

$$13 + (9 \times 3^2 - 11) - 33$$

7

$$96 \div (4^2 \div 2) \times (2 + 3^2)$$

8

$$40 + (7^2 - 3^2) - 5^2 \times 2$$



9

$$100 - (9^2 - 21) \div 4 + 5$$

10

$$110 \div (11 - 3^2) \times 2^2 - 18$$

11

$$8^2 \div 4^2 \times 7 - (2 + 3)^2$$

12

$$9 \times (5^2 - 3 \times 6) - 7$$

13

$$(12 - 6)^2 \times 3 - 11 \times 3^2$$

14

$$132 \div (4^2 - 2^2) \times (3 \times 5 - 4)$$

15

$$(8^2 - 5^2) \div 3 + (8 \times 5) - 3$$