

Math online school

Order of operations

Step 1: First perform any calculations inside parentheses.

Step 2: Next perform all multiplications and divisions, working from left to right.

Step 3: Lastly, perform all additions and subtractions, working from left to right.

Example 1 Evaluate the following arithmetic expression: $6 + 2 \times (3 + 1) : 2 - 6$

Step 1	$6 + 2 \times (3 + 1) : 2 - 6 = 6 + 2 \times 4 : 2 - 6$	parentheses
Step 2	$6 + 2 \times 4 : 2 - 6 = 6 + 8 : 2 - 6$	multiplication
Step 3	$6 + 8 : 2 - 6 = 6 + 4 - 6$	division
Step 4	$6 + 4 - 6 = 10 - 6$	addition
Step 5	$10 - 6 = 4$	subtraction

Example 2 Evaluate the following arithmetic expression: $10 - 6 : (4 - 2) \times 3 + 5$

Step 1	$10 - 6 : (4 - 2) \times 3 + 5 = 10 - 6 : 2 \times 3 + 5$	parentheses
Step 2	$10 - 6 : 2 \times 3 + 5 = 10 - 3 \times 3 + 5$	division
Step 3	$10 - 3 \times 3 + 5 = 10 - 9 + 5$	multiplication
Step 4	$10 - 9 + 5 = 1 + 5$	subtraction
Step 5	$1 + 5 = 6$	addition