Operations with Integers

When an expression has more than one operation, you evaluate it using the order of operations. The order of operations is a set of rules that tells you which operation to do first.



P: Parenthesis M: Multiplication D: Division A: Addition S: Subtraction

Evaluate 18 + (4 × 6) ÷ 2

STEP 1: Operate inside parentheses.	18 + (4 × 6) ÷ 2 4 × 6 = 24
STEP 2: Multiply and divide from left to right.	18 + 24 ÷ 2 24 ÷ 2 = 12
STEP 3: Add and subtract from left to right.	18 + 12
So, 18 + (4 × 6) ÷ 2 = 30	18 + 12 = 30

Examples:

A- Solve the following expre	ssions based on the c	order of operations.
1) 36 – (3 x 4) ÷ 2	2) 21 + (12 ÷ 3) x 5 21 + 4 x 5	
36 - 12 ÷ 2		
36 - 6	21 + 20	
30	41	
B- Find the value of the expr	ession.	
3) (- 7 – 5) ÷ 4	4) - (- 9 + - 2) x 3	5) - (- 10 4) ÷ - 2
12 ÷ 4	<u>+ 11 x 3</u>	_+ 8 ÷ - 2
3_	+ 33	4
C- Compare. Write <, > or =.		
6) - 3 + 10 <u><</u> - 6 x 1	7) - 14 + - 4 <u>></u> - 7 x 2	
- 7 - 6	- 18 - 1	14

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