

What is the value of $3 \times (2 + 2) / 2$?

- A. 2
- B. 3
- C. 4
- D. 6

Show Answer...

Correct Answer: D. 6

Explanation:

The order of operations dictates that multiplications and divisions should be done before additions and subtractions.

In this case, the parentheses indicate that the $2 + 2$ should be calculated first, resulting in $3 \times (4) / 2$.

The division should be done next, resulting in $3 \times 4 / 2 = 12 / 2 = 6$

BODMAS rule Explanation

BODMAS is a mnemonic used to help remember the order of operations in mathematics. It stands for Brackets, Orders (or Exponents), Division, Multiplication, Addition, and Subtraction. This acronym reminds students to perform calculations within brackets first, followed by any calculations involving exponents. Next, divisions and multiplications should be performed, followed by additions and subtractions.

For example, consider the following equation: $4 + 2 \times [3 - (5 / 5)]$. Using the BODMAS rule, we would first perform the calculation within the brackets: $4 + 2 \times [3 - (5 / 5)]$. Next, we would perform the division within the brackets: $4 + 2 \times [3 - 1]$. Then, we would perform the calculation within the brackets: $4 + 2 \times 2$. Finally, we would perform the multiplication: $4 + 4 = 8$.



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