

# ORDER OF OPERATIONS (PEMDAS) Facts

## No. Facts about PEMDAS

1. Mathematical expressions are worked from **LEFT** to **RIGHT** in a particular order that must be adhered to.
2. Mathematical expressions are worked from **IN** to **OUT** when there are parenthesis or brackets involved.
3. Operations inside parenthesis or brackets are worked first from the most **INNER** to the most **OUTER**
4. Operations involving exponents are worked from **LEFT** to **RIGHT**
5. Multiplication and division operations are worked from **LEFT** to **RIGHT** whichever comes first.
6. Multiplication is performed before Division if it is the first operation that appears in the mathematical expression from left to right.
7. Division is performed before Multiplication if it is the first operation that appears in the mathematical expression from left to right
8. Addition and subtraction operations are worked from **LEFT** to **RIGHT** whichever comes first.
9. Addition is performed before Subtraction if it is the first operation that appears in the mathematical expression from left to right
10. Subtraction is performed before Addition if it is the first operation that appears in the mathematical expression from left to right.
11. PEMDAS STANDS FOR:  
PARENTHESIS - P  
EXPONENTS - E  
MULTIPLICATION - M  
DIVISION - D  
ADDITION - A  
SUBTRACTION - S