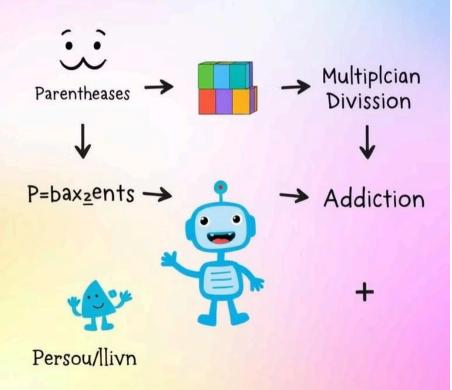
Mathematics: Performing a Series of Operations Using PMDAS or GMDAS

This module focuses on simplifying expressions involving a series of operations on whole numbers using the PMDAS or GMDAS rule.



Order of OperAtions



Understanding PMDAS/GMDAS

Parentheses/Grouping Simplify expressions within parentheses or other grouping symbols first. Multiplication/Division Perform multiplication or division from left to right. Addition/Subtraction 3 Perform addition or subtraction from left to right.

Example: $(10 \div 2 \times 5) \times (14 + 6 - 4) + 2$

1

Step 1

Simplify expressions inside parentheses: $(10 \div 2 \times 5) = 25$ and (14 + 6 - 4) = 16.

2

3

Step 2

Multiply 25 by 16: $25 \times 16 = 400$.

Step 3

Add 400 and 2:400 + 2 = 402.

$$2x + 5$$
 $2x + 5$

A:

$$1: tink = nome$$

B:
 $2: tix + nome$
5:
 $4: tinx = purple$
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3: be at

Example: $20 + (10 - 15 \div 3) \times 3$

Step 1

Simplify the expression inside the

parentheses: $15 \div 3 = 5$, then 10 - 5 = 5.

Step 2

Multiply 5 by 3: $5 \times 3 = 15$.

Step 3

Add 20 and 15: 20 + 15 = 35.

Independent Activity 1

1) [(12 - 3) + (18 ÷ 6) x 3]	2) (7 x 9) - 3 + 8	3) 18 - (12 ÷ 6) + 7
4) 7 - 5 + 8 x (16 ÷ 4)	5) (10 x 6) ÷ (9 - 3 + 6)	6) 15 - 3 + 20 ÷ 5 × 3
7) (6 × 6) - 9 + 8	8) 22 - 15 ÷ 7 + 10	9) 10 + 30 ÷ 2 x 3
10) 12 + 4 x 6 ÷ 8		

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Summary



Parentheses/Grouping

Simplify expressions within parentheses or other grouping symbols first.



Multiplication/Division

Perform multiplication or division from left to right.

Addition/Subtraction

Perform addition or subtraction from left to right.



Additional Practice

1) 60 x 3 ÷ 4 + 5 =	2) (14 - 6) + (3 - 1) x 24 =	3) (3 x 30) + (100 ÷ 5) =
4) 2 x [3+2 x (10 - 3)] =	5) 11 + 3 x [4 + (9 - 8) - 2] =	6) 18 ÷ 6 x 4 - 3 + 6 =
7) 14 - 8 + 3 + 8 x 24 ÷ 8 =	8) 4 x 5 + (14 + 8) - 36 ÷ 6 =	9) (28 ÷ 4) + 3 + (10 - 8) x 5 =
10) (17 - 7) x 6 + 2 + 56 - 8 =		