BEDMAS: Order of Operations

B: First perform any calculations inside **brackets.**

E: Perform **Exponent** calculations (Grade 6 only)

DM Next perform all **multiplications and divisions**, working from left (L) to right (R).

AS Lastly, perform all **additions and subtractions**, working from left (L) to right (R).

Example 1: Evaluate 3 + 6 x (5 + 4) ÷ 3 - 7 using the order of operations.

Solution:

B	3 + 6 x **(5 + 4)** ÷ 3 - 7	=	3 + 6 x 9 ÷ 3 - 7	Brackets
MD	3 + **6 x 9** ÷ 3 - 7	=	3 + 54 ÷ 3 - 7	Multiplication L-R
	3 + **54 ÷ 3** - 7	=	3 + 18 - 7	Division L-R
AS	**3 + 18** - 7	=	21 - 7	Addition L-R
	21 - 7	=	14	Subtraction

Example 2: Evaluate 9 - 5 ÷ (8 - 3) x 2 + 6 using the order of operations.

Solution:

B	9 - 5 ÷ **(8 - 3)** x 2 + 6	=	9 - 5 ÷ 5 x 2 + 6	Brackets
MD	9 - **5 ÷ 5** x 2 + 6	=	9 - 1 x 2 + 6	Division (L-R)
MD	9 - **1 x 2** + 6	=	9 - 2 + 6	Multiplication (L-R)
AS	**9 - 2** + 6	=	7 + 6	Subtraction (L-R)
AS	7 + 6	=	13	Addition (L-R)

Example 3: Evaluate 150 ÷ (6 - 1) - 5 using the order of operations.

Solution:

B	150 ÷ (6-1) - 5	=	150 ÷ (5) - 5	Brackets
DM	**150 ÷ 5** - 5	=	150 ÷ 5 - 5	Division (L-R)
AS	**30** - 5	=	0	Subtraction

Name_____ **Order of Operations Practice** Date_____

*Remember to work left to right with your multiplication and division

*Remember to work left to right with your addition and subtraction

Question 1 3 x (3 + 3) + 3

B

E

DM

AS

Question2 $9+ 1 \div (1 + 4) + 7$

B

E

DM

AS

Question3 $7 \times (15 - 8) + 15$

B

E

DM

AS

Name_____ **Order of Operations Pre-Test** Date_____

*Remember to work left to right with your multiplication and division

*Remember to work left to right with your addition and subtraction

Question 4 $40 \div (8 - 6) - 15$

B

E

DM

AS

Question 5 $12 \div 3 + (16 \div 4) + 7$

B

E

DM

AS

Question 6 $2 + 5 - 3 + 2 \times (8-7)$

B

E

DM

AS