Order of Operations Lesson & Practice
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Instructions: Use the lesson video (https://youtu.be/jTzfNSuczsw?si=7bGCFsIgkltWhCvd) to complete the following notes. After you have filled out the notes, complete the practice questions.

Notes

The correct order of operations is:

P_____
E_____
M_____
D_____
A_____
S_____

Example: Evaluate the following expression using the correct order of operations.

$$10 - 4 \times (8 - 2) \div 2^3 + 1$$

Practice

1) Evaluate each of the following expressions using the correct order of operations. Show your work.

a) (30-3) ÷ 3 **b)** (21-5) ÷ 8 **c)** $1 + 7^2$

d) 5(4) – 8

e) 8 + 6(9)

f) 3 + 17(5)

g) 15 + 40 ÷ (-20)

h) 9(3+3)÷ 6

i) (9 + 18 – 3) ÷ 8

j) $4(4 \div 2 + 4) + (-9)^2$

k) [9(-2)] ÷ (2+1)

l) [9(2)] ÷ 2 + (-1)

m) 9 – 7 – 6 ÷ 6

n) [10(2)] ÷ (1 + 1)

o) 7(9) – 7 – 3(5)

p) $8 - 1 - (18 - 2) \div (-8)$ **q)** $\frac{1}{4} \times (16 \times 3) + 25 \div 5$ **r)** $(5 + 3^2) \div (2^4 \div 2^3)$

s) $7 + \sqrt{20 - (5 - 1)^2}$ **t)** $8 + 5(4 - 1)^3 - 10^2$ **u)** $4 + \sqrt{11 + (2 + 3)^2}$

2) Insert brackets to make each statement true.

a) $4^2 - 7^2 = 81$ **b)** $3^2 - 1 \div 5 = 1.6$ **c)** $3 + 2\ (15) - 7 = 19$