NAME_____

Module 1 **Number Sense**
Lesson 1 **Order of Operations**

Lesson Objectives

- Apply rules for Order of Operations to equations with whole numbers and parentheses.
- Apply rules for Order of Operations to equations with whole numbers and with or without parentheses, brackets, or exponents.
- Apply rules for Order of Operations to rational numbers.

Subtopic 1   **Order of Operations (PEMDAS)**

In the Order of Operations, PEMDAS stands for:

P_____

E_____

M_____

D_____

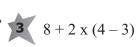A_____

S_____

Parentheses ( ), _____ and _____ are grouping symbols.

Subtopic 2   **Order of Operations Involving No Parentheses**

Evaluate:

1 $20 - 7 \times 2 + 1$

2 $14 + 6 \div 2 \times 3$

Subtopic 3   **Order of Operations Involving Parentheses**

3 $8 + 2 \times (4 - 3)$

4 $56 - (4 + 1) \times 6$

When grouping symbols are inside grouping symbols, they are called _____ grouping symbols.

In the expression 2^3, 3 is an _____ and 2 is a _____ .

Evaluate:

5 $2[4(6 - 3)] - 10$

6 $2^3 \div 8 + 2(4 - 2)$