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NAME _____

Module 1 Getting Ready for Algebra
Lesson 5 Applying the Order of Operations

guided notes

Lesson Objective

- Apply the order of operations to evaluate mathematical expressions.

Order of Operations

1. Evaluate first operations that appear in parentheses or other grouping symbols.
2. Do all calculations involving exponents.
3. Complete all multiplication and division in order from left to right.
4. Complete all addition and subtraction in order from left to right.

Please Excuse My Dear Aunt Sally stands for:

1. **P** arentheses and grouping symbols
2. **E** xponents
3. **M** ultiplication and **D** ivision
4. **A** ddition and **S** ubtraction

1. Evaluate: $20 - 2 \cdot 2$
   16
2. Evaluate: $16 \div (-4) + 10(3)$
   26
3. Evaluate: $12 \div 4 \cdot 2(-1) \div 6$
   –1
4. Evaluate: $12 - 4^2$
   –4
5. Evaluate: $18 \div (-3)^2 - 7$
   –5
6. Evaluate: $-1(1 + 5)^2 \div 9$
   –4
7. Evaluate: $\frac{9^2 - 3^3}{(-2)^4 + 11}$
   2
8. Evaluate: $|9 \cdot [3 - (-4)]|$
   63
9. Evaluate: $[18 \div (9 - 7) + 6] - (4 - 10)$
   21

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