1.5 Order of Operations

9-19-17 p.23

Sep 10-9:31 AM

Parentheses ( ) [ ]
Exponents
* Multiply/Divide LEFT TO RIGHT
Add/Subtract LEFT TO RIGHT

Please
Excuse
My Dear
Aunt Sally

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Simplify the expression.

$3 + 15 \div 5$

$3 + 3 = 6$

Simplify the expression.

$44 - 14 \div 2 \cdot 4 + 6$

$44 - 7 \cdot 4 + 6$

$44 - 28 + 6$

$16 + 6 = 22$

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Simplify the expression.

$3 + 2^3 \cdot 5$

$3 + 8 \cdot 5$

$3 + 40 = 43$

Simplify the expression.

$2 + 24 \div 6$

$2 + 4 = 6$

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Simplify the expression.

$28 - 21 \div 3 \cdot 4 + 5$

$28 - 7 \cdot 4 + 5$

$28 - 28 + 5$

$0 + 5 = 5$

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Simplify the expression.

$2 + 3^2 \cdot 4$

$2 + 9 \cdot 4$

$2 + 36$

38

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Simplify the expression.

$42 - (3 \cdot 4) \div 6$

$42 - 12 \div 6$

$42 - 2$

40

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Simplify the expression.

$[(26 - 4 \cdot 5) + 6]^2$

$[(26 - 20) + 6]^2$

$[6 + 6]^2$

$12^2 = 144$

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Simplify the expression.

A. $24 - (4 \cdot 5) \div 4$

$24 - 20 \div 4$

$24 - 5 = 19$

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Simplify the expression.

$[(32 - 4 \cdot 4) + 2]^2$

$[(32 - 16) + 2]^2$

$(16 + 2)^2$

$18^2 = 324$

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Sandy runs 4 miles per day. She ran 5 days during the first week of the month. She ran only 3 days each week for the next 3 weeks. Simplify the expression $(5 + 3 \cdot 3) \cdot 4$ to find how many miles she ran last month.

Week	Days
Week 1	5
Week 2	3
Week 3	3
Week 4	3

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Simplify each expression.

1. $27 + 56 \div 7$ — 35

2. $9 \cdot 7 - 5$ — 58

3. $(28 - 8) \div 4$ — 5

4. $136 - 10^2 \div 5$ — 116

5. $(9 - 5)^3 \cdot (7 + 1)^2 \div 4$ — 1,024

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5. $(9 - 5)^3 \cdot (7 + 1)^2 \div 4$

$4^3 \cdot 8^2 \div 4$

$64 \cdot 64 \div 4$

$4{,}096 \div 4 = 1{,}024$

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