p. 8-9 Order of Operations

Warm-Up:

Complete page 4 in notebook (Persevere)

p. 8-9 Order of Operations

Discuss with a partner...

50
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WHAT IS THE ANSWER?

$7 + 7 \div 7 + 7 \cdot 7 - 7$

1 2

$7 + 1 + 49 - 7$

50

HW: *What questions do you have?*

He wanted to wake up oily.

Order of Operations

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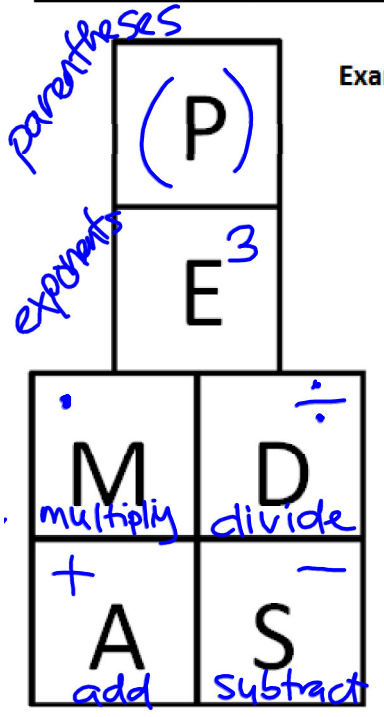

Example: $17 - 5^2 \div (2+3) + 8 \cdot 2$

$17-5^2\div 5+8\cdot 2$

$17-25\div 5+8\cdot 2$

$17-5+16$

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- ALWAYS Multiply and Divide left to right
- ALWAYS Add and Subtract left to right
- Inside parenthesis, always follow Order of Operations.

brackets
division bar

Examples

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Simplify by using the Order of Operations

1. $(12-6)^2-3^2$

$6\cdot 3-2$

$18-2$

16

2. $15/3\cdot 5-4^2$

$15/3\cdot 5-16$

$5\cdot 5-16$

$25-16$

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Examples

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Simplify by using the Order of Operations

3. $20-[2(8+1)^2]$

$20-[2(9)^2]$

$20-[2\cdot 81]$

$20-162$

-142

4. $10+4^2\div 8-2\cdot 3^2$

$10+16\div 8-2\cdot 9$

$10+2-18$

$12-18$

-6

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Practice:

1) $\frac{15}{1+4}-2$

2) $3 \bullet 1^3 - 2$

3) $(3-2) \bullet 4(5+4)$

4) $(3-1) \bullet \frac{18}{2+4}$

5) $(5+5-(5-5)^3) \bullet 4$

6) $\frac{11+11-4}{2 \bullet 2-1}$