1-1 Words and Expressions

May 20-7:28 AM

Ex.1 Evaluate:

$$(9+6) \div 5 \cdot 4 + (2^3 - 3)$$

Don't worry!!!

You have done all of this before! We just need to put it all in order.....

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1. Parentheses

2. Exponents

3. Multiplication

   Division

4. Addition

   Subtraction

I sure hope that I know all of these!

Jul 19-12:55 AM

Ex.1 Evaluate: $(9+6) \div 5 \cdot 4 + (2^3 - 3)$

Order of Operations

1. Do all operations within grouping symbols first.

2. Do all powers before other operations.

3. Multiply and divide from left to right.

4. Add and subtract from left to right.

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Ex.1 Evaluate: $(9+6) \div 5 \cdot 4 + (2^3 - 3)$

$$15 \div 5 \cdot 4 + 5$$

$$3 \cdot 4 + 5$$

$$12 + 5$$

$$17$$

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Ex.2 Evaluate:

$$\frac{(28 + 12)}{(13 - 5)} = \frac{40}{8} = 5$$

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Ex.3　Evaluate:　$\dfrac{3\cdot 2+6}{4}+2(18-3)$

$\dfrac{(3\cdot 2+6)}{4}+2\cdot 15$

$\dfrac{12}{4}+2\cdot 15$

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$3+2\cdot 15$

$3+30$

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Ex. 4　Valerie has test grades of 96, 82, 78, and 76. Using a calculator, she found her average grade to be 275. Is Valerie's answer reasonable?

$(96+82+78+76)\div 4$

$=83$

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Ex. 5　Now you try.

Evaluate:　$\dfrac{(60-15)}{(2+7)} = \dfrac{45}{9} = 5$

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Ex. 6 Evaluate:　$22\div 11(9)-3^2$

$22\div 11\cdot 9-3^2$

$22\div 11\cdot 9-9$

$2\cdot 9-9$

$18-9$

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Ex. 7 Evaluate:　$3[10-(27\div 9)]$

$3[10-3]$

$3(10-3)$

$3\cdot 7$

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Ex. 8 Insert ( ) to make the statement true.

For example: 5 - 2 + 6 = -3
　　　　　　　 5 -(2 + 6) = -3

Ex. 9　Now you try:

$2 -(3 - 4) + 1 = 4$

☆ $2+1+1=4$

May 12-12:50 PM

2

Across

1. $\frac{2}{3}$ of 159,327

3. $\frac{-1+17^2}{4+2^3}$

4. $4835 - 541 + 1284$

6. $\frac{3+140}{3 \cdot 14}$ (fraction form)

7. $8075 - 3(42)$

9. $\sqrt{6^2 + 8^2}$

11. $\frac{740}{18.4 - 2.1 \cdot 9}$

12. 57^3

Down

1. $9(-7+180)$

2. $\left(\frac{9}{2}\right)\left(\frac{17}{5} + \frac{25}{4}\right)$ (fraction form)

4. $3 - 3(12 - 200)$

5. $9 \cdot 10^2 - 9^2$

8. $15 + 47(922)$

10. $25.9058 \cdot 20/4 - 89$ (decimal form)

11. $1284 - \frac{877}{0.2}$

Aug 28-1:35 PM

Homework: page 8 (21-29 all)

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