

Warm Up!

- 1.) Write in agenda book
- 2.) Claire runs 10 km in 1 hour. How many does she run in 2.5 hours?

Jan 22-4:34 PM

Lesson 10.2: Evaluating Expressions

Learning Target: I can use the order of operations to evaluate algebraic expressions

Jan 22-4:35 PM

Steps to Evaluate an Algebraic Expression

- 1.) Identify the variable in the expression.
- 2.) Substitute or "plug in" the value of the variable.
- 3.) Use the order of operations to simplify the expression.

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Jan 22-4:36 PM

- 1.) $x - 9 ; x = 15$
 $15 - 9$
 6
- 2.) $16/n ; n=8$
 $16/8$
 2
- 3.) $0.5y ; y = 1.4$
 $0.5 * 1.4$
 0.7
- 4.) $6k ; k = 1/3$
 $\frac{6 \cdot 1}{1 \cdot 3} = \frac{6}{3} = 2$

Jan 22-4:36 PM

5.) $4(x - 4) ; x = 7$
 $4(7-4)$
 $4(3)$ (12)

6.) $w - x + y ; w=6, x=5, y=3$
 $6 - 5 + 3$
 $1 + 3$ (4)

7.) The expression $60m$ gives the number of seconds in m minutes.
 How many seconds are there in 7 minutes? $60 \cdot 7$
 (420 seconds)

Jan 22-4:37 PM

Scavenger Hunt

1. With your partner, choose a problem to begin on.
2. Work out the problem on your recording sheet. When you have an answer, find that answer somewhere in the room. If you can not find your answer, you have made a mistake.
3. When you find the answer, you will then work on the problem below the answer.
4. Continue solving problems and finding the answers. Your final answer should be back at the station you started at.

Jan 22-4:37 PM

When done with scavenger hunt ...

- 1.) Show Mrs. Sines your recording sheet
- 2.) Homework Worksheet
- 3.) ALEKS

Jan 22-4:41 PM

H.O.T.A. FOCUS ON HIGHER ORDER THINKING

17. **Draw Conclusions** Consider the expressions $3x(x - 2) + 2$ and $2x^2 + 3x - 12$.

a. Evaluate each expression for $x = 2$ and for $x = 7$. Based on your results, do you know whether the two expressions are equivalent? Explain.

b. Evaluate each expression for $x = 5$. Based on your results, do you know whether the two expressions are equivalent? Explain.

Jan 23-12:48 PM