

Variables and Expressions

9/11/2015

Sep 10-11:28 AM

What Questions Do We Have
About The Homework (#1-5)?



Sep 10-9:46 PM

5c) $S = 2r + 7$

$r=1, S=9$ $9 = 2(1) + 7$
 $r=2, S=11$ $9 = 9 \checkmark$
 $r=3, S=13$

$11 = 2(2) + 7$
 $11 = 11 \checkmark$

$13 = 2(3) + 7$
 $13 = 6 + 7$
 $13 = 13 \checkmark$

Sep 11-9:26 AM

Bell Ringer:


Translate Algebraic Expressions

The sum of one-half of p and one-fourth of d, minus 9
 $\frac{1}{2}p + \frac{1}{4}d - 9$ $(\frac{1}{2}p + \frac{1}{4}d) - 9$

One-third of the sum of q and 5 minus the product of 4 and w
 $\frac{1}{3}(q+5) - 4w$

2 is added to five-sixths of h
 $2 + \frac{5}{6}h$ $\frac{5}{6}h + 2$

4 divided by y
 $\frac{4}{y}$



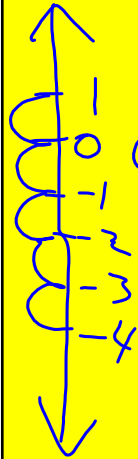
Sep 10-8:30 PM

Evaluate the expression:

$$3 \cdot 2 + 7$$

$$6 + 7$$

$$13$$



$$12$$

$$9 + 3$$

$$25 - 16 + 3$$

$$5^2 - 4^2 + 3$$

$$1 - 5$$

$$-4$$

$$\frac{12}{-4} = -3$$

ANSWER

Sep 10-11:39 AM

$$8 - \frac{1}{2} \cdot 6 + 24 \div 6$$

$$8 - 3 + 4$$

$$5 + 4$$

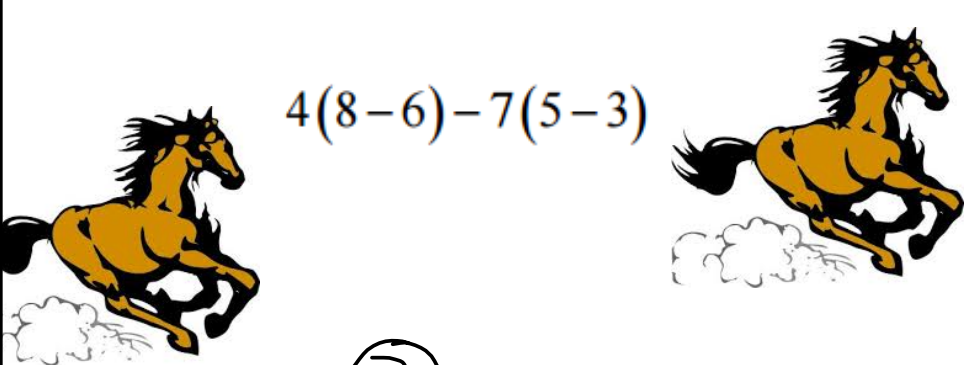
$$9$$

$$(2 - 7)(5 - 3) + 3^2 = 3 \cdot 3 = 9$$

$$-5 \cdot 2 + 9$$

$$-10 + 9 = -1$$

Sep 10-8:18 PM



$$4(8-6) - 7(5-3)$$

Handwritten calculations:

$$4 \cdot 2 - 7 \cdot 2$$

$$8 - 14$$

$$-6$$

Other handwritten notes:

$$4 \cdot 8 = 32$$

$$\frac{1}{4}$$

$$2^3 = 2 \cdot 2 \cdot 2 = 8$$

Sep 10-8:19 PM

Explain the calculation that each expression involving X represents

$$3x - 8$$

SUBTRACT 8 FROM THE
PRODUCT OF 3 AND X

Sep 10-8:20 PM

SUBTRACT 4 FROM X AND DIVIDE THE RESULT BY 2.

$$\frac{x-4}{2}$$

The product of 4 and X squared, minus 8

$$4x^2 - 8$$

~~$4(x^2 - 8)$
 $4x^2 - 32$~~

Sep 10-8:23 PM

Evaluate $4x - 7$ when $x = 5$. First explain what

calculations are occurring in the expression and then find

its value.

$$4(5) - 7 =$$

$$20 - 7 =$$

$$\textcircled{13}$$

SUBTRACT 7 FROM THE PRODUCT OF 4 AND X.

Sep 10-8:25 PM

Evaluate the expression $8 - 2x^2$ when $x = -3$. Show the calculations you do and the order in which you do

them:

Calculation:

Explanation:

$$8 - 2(-3)^2 =$$

$$-3 \cdot -3 = 9$$

$$8 - 2(9)$$

$$8 - 18 =$$

$$\textcircled{-10}$$

SUBTRACT TWO
TIMES X SQUARED
FROM 8.

Sep 10-8:27 PM

Evaluate the expression $\frac{2(x+8)}{3} + 1$ for when $x = -2$.

Show the steps in your calculation.

$$\frac{2(-2+8)}{3} = \frac{2(6)}{3} = \frac{12}{3} =$$

$$\textcircled{4}$$

Sep 10-8:29 PM

What is the value of the expression $\frac{1}{2}x^2 - 2x - 3$ when $x = 4$?

$$\frac{1}{2}(4)^2 - 2(4) - 3$$

$$\frac{1}{2} \cdot 16 - 8 - 3$$

$$8 - 8 - 3 = -3$$

Sep 10-8:30 PM