Algebra Bellwork - September 16, 2011

1) **Simplify the expression.**

$$60 \div \left[5 + (7-2)^2 \right]$$

2) Evaluate the expression $(ab)^2$ for $a = 2$ and $b = 5$.

Check your answers

1) $4 + p$
2) $y - 12$
3) $12 - m$
4) $15c$
5) $\frac{n}{8}$
6) $\frac{17}{k}$
7) $x - 23$
8) $v + 3$
9) $2 + 2x$
10) $x - 11$
11) $9 - x$
12) $\frac{n}{32}$
13) $5x$
14) $13 + 2x$
15) $\frac{n}{6}$
16) $\frac{11}{n}$

1) **Simplify the expression.** PEMDAS

$$60 \div \left[5 + (7-2)^2\right]$$

$60 \div [5 + 5^2]$

$60 \div [5 + 25]$

$60 \div 30$

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2) Evaluate the expression $(ab)^2$ for $a = 2$ and $b = 5$.

To evaluate expressions:
1) Substitute a value for each variable.
2) Simplify.

$(2 \cdot 5)^2$

$10^2 = 100$

Equation: a mathematical sentence that uses an equal sign (=).

Emilio Records sells CD's at $12 each. Write an equation that represents the cost (c) of a certain number of CD's (n).

1) Define a variable
2) Write an equation to explain the situation

$C = \$12n$

Simplify each expression.

1. $5 + 6 \cdot 9$

2. $40 - 2 \cdot 3^2$ 22

3. $8 + 12 \div 6 - 3$

4. $8 \cdot 4 + 9^2$ 113

5. $5 \cdot 3^2 - 13$

6. $21 + 49 \div 7 + 1$ 29

Evaluate each expression for $a = 5$, $b = 12$, and $c = 2$.

7. $a + b + 2c$

8. $2b \div c + 3a$ 27

9. $b^2 - 4a$

10. $ca + a$ 15

11. $abc + ab$

12. $5a + 12b$ 169

a	$\frac{(5 \cdot 2 - a + 4)}{10}$
2	$\frac{6}{5}$ $1\frac{1}{5}$ 1.2
5	$\frac{9}{10}$ .9
9	$\frac{1}{2}$ .5
12	$\frac{2}{10}$ .2