

## **Algebra Bellwork - September 15, 2011**

### **Review the notes we wrote yesterday.**

Expression: mathematical sentence that has numbers, variables, and operations, and NO equal sign.

Simplify: break an expression down to its simplest form.

Operation: addition, subtraction, multiplication, division

Variable: a number that we don't know, or that can change.

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Addition: add, sum, plus, and, more, with, increase,

Subtraction: take away, minus, difference, less than, decrease, subtract

Multiplication: times, by, multiply, product, exponent/powers, multiples

Division: divide, cut in half, split, into, quotient, over, fractions, numerator, denominator, divisor, dividend

Translate into math:

4 <sup>addition</sup> more than <sup>n</sup> a number

use a  
variable



$$4 + n$$

Translate into math:

Subtraction  
4 less than p

$$p - 4$$



p take away 4

Translate into math:

multiplication

The product of a number and 12.

~~$n \times 12$~~      $n \times 12$   
 $12n$  ✓  
 $12 \cdot n$

Translate into math:

Division

The quotient of a number and 6.

$$q \div 6$$
$$\frac{q}{6}$$

The \_\_\_\_\_ of \_\_\_\_\_ and \_\_\_\_\_ is \_\_\_\_\_.

sum

difference

product

quotient

Translate into math:

The sum of 12 and five times x.

$$12 + 5x$$

Four times the sum of a number and 10.

$$4(n + 10)$$

Seven more than the quotient of q and six.

$$7 + \frac{q}{6}$$

Translate into English:

$$5n - 7$$

$$p/6 + 7$$

**Write an algebraic expression for each phrase.**

1. 4 addition more than  $p$   $4+p$

3. 12 minus  $m$

5. the quotient of  $n$  and 8

7. 23 less than  $x$

2. subtraction  $y$  minus 12  $y-12$

4. the product of 15 and  $c$

6. the quotient of 17 and  $k$

8. the sum of  $v$  and 3

**Define a variable and write an expression for each phrase.**

9. 2 more than twice a number

10. a number minus 11

11. 9 minus a number

12. a number divided by 82

13. the product of 5 and a number

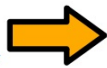
14. the sum of 13 and twice a number

15. the quotient of a number and 6

16. the quotient of 11 and a number

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