Basic Algebra 1.1 Translate words into algebraic expressions and equations

```
algebraic expression
variable
numerical expression
factor \
prduct \
quotient \( \ddots \)
sum \( \ddots \)
difference \( -\end{array}
equation \( ( ) ) = ( \)
```

activ: I have/who has (if time)

P. 4

Addition	Subtraction	Multiplication	Division
plus	minus	times	divided by
the sum of	the difference of	the product of	the quotient of
increased by	decreased by	multiplied by	the ratio of
more than	less than	at	per
added to	fewer than	of	
the total of	subtracted from		

## **Equality**

equals is is equivalent to is equal to is the same as is as much as is identical to

## Whiteboards

Write an algebraic expression for each verbal expression. ( $Examples\ 1\ \&\ 2$ )

4. t more than s

- 5. the product of 7 and m
- 6. 11 decreased by the quotient of x and 2

Write a verbal expression for each algebraic expression.

(Examples 5 & 6)

Write an equation for each sentence. (Examples 7 & 8)

6+m = 17

- 9. A number m added to 6 equals 17.
- **10.** Ten is the same as four times r minus 6.

Write a sentence for each equation. (Examples 9 & 10)

**11.** 
$$5 + r = 15$$

**12.** 
$$\frac{4p}{3} = 12$$

**13. Biology** The family of great white sharks hat w different species. The blue shark family has nine times w plus three different species. Write an algebraic expression to represent the number of species in the blue shark family. (Example 4)

$$9.\omega + 3$$
$$9\omega + 3$$

6 e m A

$$3+5.5-9=(6+1).9-0=0$$
  
 $3+25-9=19$   
 $9+5.3-5$   
 $9+15-5=19$ 

$$2 + 8 \cdot (8-1) =$$
 $2 + 8 \cdot 7 = 58$ 
 $8 + 8 (1-2)$ 
 $8 + 8 (-1) = 0$ 

$$6+7\cdot4-6=29$$
 $6+28-5=29$ 
 $6+7\cdot5-4$ 
 $6+35-4=37$ 

$$7 + 6.9 - 3 =$$
 $7 + 59 - 3 = 58$ 
 $6 + 7.9 - 3$ 
 $6 + 63 - 3 = 66$ 

$$Smato$$
  
 $8-5=3$   
 $8+5=3$   
 $12+5$