## Writing

Expressions

## ALGEBRAIC EXPRESSION - a combination of variables, numbers, and at least one operation.

## Examples:

$5+n \quad 7 a($ means $7 \times a) \quad k-3$

Review key words for the different operations Drag word to correct operation (14 words)

| ADDITION | SUBTRACTION |  |
| :--- | :--- | :--- |
| MULTIPLICATION | Of |  |

## Examples:

two plus four a number increased by two
Verbal expressions can be translated to numerical or algebraic expressions by identifying numerical values, variables, and key terms that signal an operation.

## VARIABLE - a placeholder, a letter or symbol, used to represent an

 unspecified value in mathematical expressions or equationsSuppose you knew that the Panthers scored 35 points in the first half of a game, but you didn't know how many points they scored in the second half. You could use a variable to represent the number of points scored in the second half.

## DEFINE THE VARIABLE:

$35+p$
$p=$ points in the second half


Write a word phrase for each algebraic expression.

| $\substack{\text { Algebraic } \\ \text { Expression }}$ | Word Phrase |
| :---: | :--- |
| $\mathbf{q + 5}$ |  |
| $3-\mathbf{t}$ |  |
| $y / 5$ |  |
| $12 \times$ |  |

## Real World Application:

1. Mary earns an allowance of $\$ 5$ per week. She also earns $\$ 6$ per hour babysitting. Write an expression that would represent the total amount of money she earns in one week.
define the constant: $\qquad$
define the variable: $\qquad$
expression:
Evaluate your expression to determine how much Mary will make if she works for 6 hours.

Tips to remember:

- Letters in math are called variables because their values vary.
- When multiplying a number and a variable, the number is written first. For example: $x$ times 5 is $5 x$ not $x 5$.
- Don't use subtraction in the wrong order!

For example:
"the difference of 5 and t " and " 5 decreased by $\dagger$ " are translated as 5 - $\boldsymbol{\dagger}$
while " 5 less than $\dagger$ " and " 5 subtracted from †" are translated as $\dagger-5$.

## Real World Application:

1. You have decided to treat yourself to ice cream. "Scoops" has one cone of ice cream for $\$ 3$ and each topping is $\$ 1$.
define the constant: $\qquad$
define the variable: $\qquad$
expression: $\qquad$

Evaluate your expression to determine how much it will cost to get an ice cream cone with 3 toppings.

