

Expressions: Writing from a Phrase

Date: 10-9-12

Objective: Today we will define vocabulary for expressions in order to write an expression from a phrase.

Notes:

Expression: a mathematical statement without an equal sign

Algebraic Expression: expression with a variable


Variable: a letter that represents a number or a set of numbers

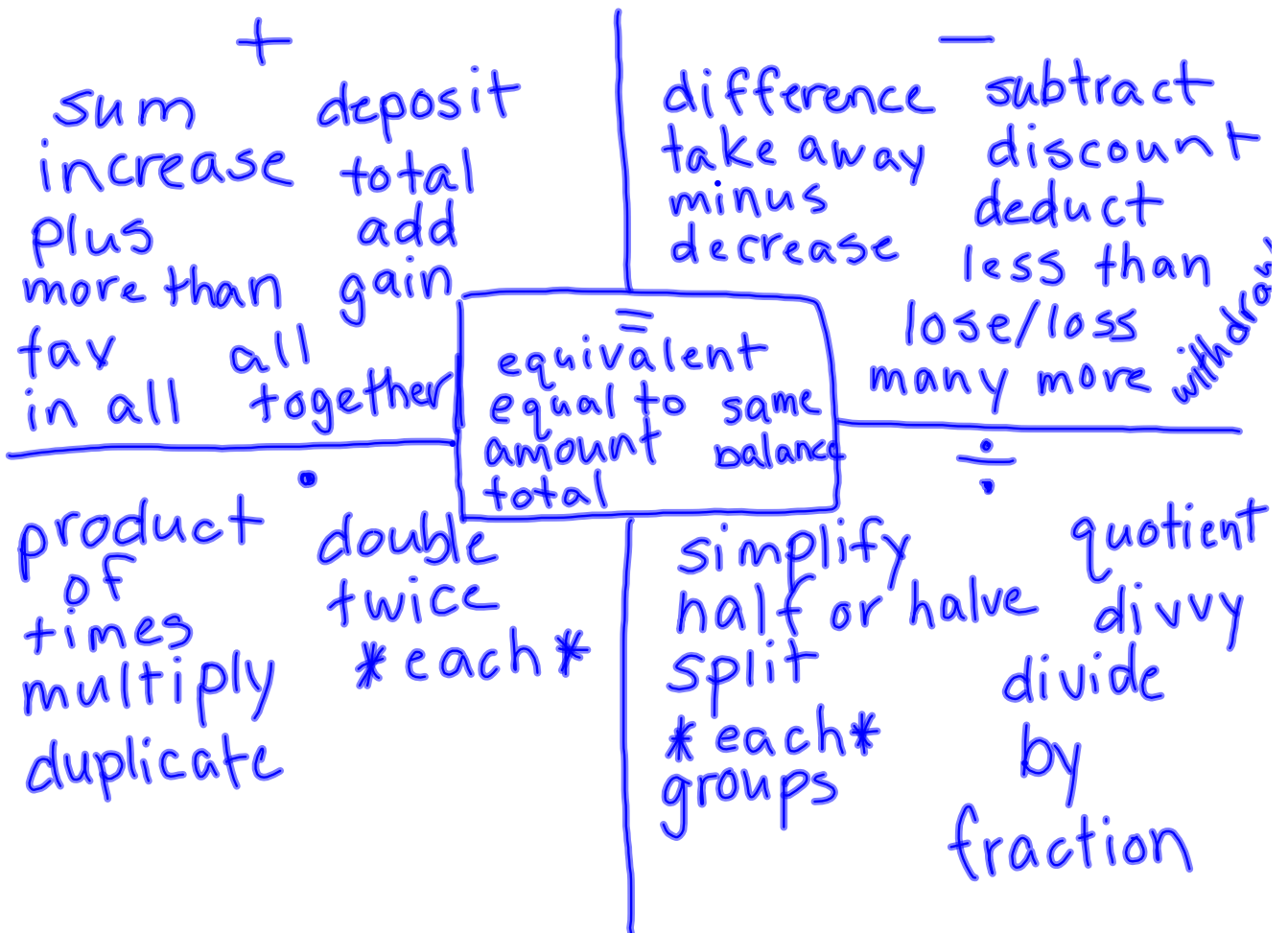
What do we do with expressions?

Expressions can be:

- Written from a phrase
- Simplified
- Evaluated using specific values

Writing an Expression from a Phrase

- Phrases like "some number" or "a number" mean a variable 
- Phrases like "times the quantity" or "and then" indicate a need for parentheses
- Certain words indicate certain operations (see diagram)



Example: nine more than a number

$$n + 9$$

Example: four less than a number

$$n - 4$$

Example: a number times three

$$3 \cdot n \quad 3n$$

Example: five times the quantity of four plus a number

$$5(4 + n)$$

Example: multiply a number by two then add twelve

$$2n + 12$$

Example: double a number and add three then divide by seven

$$\frac{(2n + 3) \div 7}{7}$$

Exit Ticket

Write the expression

- ① 4 times a number increased by 5
- ② a number divided by 3 and reduced by 7