Concept Check:

1) what are "grouping symbols?"

 2) Calculator:

        2 + 12/4   (2+10)/4

3) With your partner, write a definition for:

expression

equation

inequality

evaluate

simplify

solve

HW issues? (Write # on board you would like to go over):

1-3: Basic Properties of Real Numbers

OBJECTIVE:
To identify all properties of <u>equality</u> and <u>field</u> properties of <u>real numbers</u>

Properties of Equality:

<u>NAME</u>   <u>   PROPERTY   </u>

Reflexive

Symmetric

Transitive

Addition

Multiplication

FIELD PROPERTIES-true for set of **reals**

<u>NAME</u>　　　　　　<u>PROPERTY</u>　　<u>EX:</u>

Commutative (+)

　　　　　　　(*)

Associative　(+)

　　　　　　　(*)

Identity　　　(+)

　　　　　　　(*)

INVERSE:

　Opposites

　(-a is additive inverse of a)

　Reciprocals

　($\frac{1}{a}$ is multiplicative inverse of a)

Distributive

For all real numbers a, b, c...

Closure: x + y = a unique real number

x·y = a unique real number

ex. x = 12 , y = 6

Can you think of any two real numbers that, when you add them, are not real?

Try this:

Given each set, determine if it is CLOSED under: addition, subtraction, multiplication, and division

a) {0, 1, 2, 3, ...}

+

-

*

÷

b) {-1, 1}

+

-

*

÷

c) {Integers}

+

-

*

÷

HW: p. 17 #3,9,13,15,17,21,25,29,33
Study for QUIZ 1.1-1.6 (not 1.3)