

BE-1A Monday 8-28-06

① $2 + 2(2)^2(5) + 8$

② $x = 12 \quad y = 8 \quad z = 6$

$$\frac{x^2 y - 2z}{4} = ?$$

③ NAME THE SET

$$\{1, 2, 3, \dots\}$$

④ LIST ALL OF THE SETS OF NUMBERS TO WHICH

$$-\frac{4}{5}$$

IS AN ELEMENT.

①

SET A collection of things

ELEMENTS the members of a set

SET NOTATION HOW TO "WRITE" SETS

EX) $\{ \dots, -3, -2, -1, 0, 1, 2, 3, \dots \}$

EQUATION A MATH EXPRESSION WITH AN EQUALS SIGN

EX)
$$x + 3 = 9$$

LEFT SIDE | RIGHT

GRE "GOLDEN RULE OF EQUATIONS"

WHATEVER YOU DO TO ONE SIDE,
DO TO THE OTHER.

Solution
to
an
Equation
VALUE(S) OF THE VARIABLE(S) THAT
MAKE A TRUE MATH EXPRESSION
(MAKE THE EQUATION TRUE)

EX) $(6) + 3 = 9$ $x = 6$ is
solution to
 $x + 3 = 9$

In Ch. 3 we will learn how to solve equations. For now, in Ch. 1-3, you will be given a set of numbers called the replacement set.

The solution to an equation will be found by testing each member of the replacement set. Any member or element of the replacement set that makes the equation true is a member of the solution set.

{ Replacement Set }



test EACH VALUE
in the equation



VALUES THAT MAKE A
"true" EQUATION
MAKE UP THE SOLUTION SET



{ solution set }

A table is THE way you
organize your Replacement Set
tests. For EXAMPLE...

EX 1 Pg 16 Find the solution set

(4) (4A)

for $6N + 7 = 37$ if the replacement set
(substitution set)
is $\{3, 4, 5, 6, 7\}$

Since 3, 4, 5, 6, 7 must be ^(use parentheses) substituted
for N in the equation, set up a table:

<u>N</u>	<u>$6N + 7$</u>	<u>$= 37$</u>
3	$6(3) + 7$	$\stackrel{?}{=} 25$
4	$6(4) + 7$	$\stackrel{?}{=} 31$
5	$6(5) + 7$	$\stackrel{?}{=} 37 \leftarrow \text{YES}$
6	$6(6) + 7$	$\stackrel{?}{=} 43$
7	$6(7) + 7$	$\stackrel{?}{=} 49$

The solution set is

$$N = \{5\}$$

EX 1 Pg 16, 17 GIVEN: $5(x+2)=40$

5

5a

REPLACEMENT SET: $\{3, 4, 5, 6, 7\}$

FIND: SOLUTION SET

<u>X</u>	<u>$5(x+2) = 40$</u>
3	$5[(3)+2] \stackrel{?}{=} 25$
4	$5[(4)+2] \stackrel{?}{=} 30$
5	$5[(5)+2] \stackrel{?}{=} 35$
6	$5[(6)+2] \stackrel{?}{=} 40 \checkmark \text{yes}$
7	$5[(7)+2] \stackrel{?}{=} 45$

SOLUTION SET is:

$$x = \{6\}$$

Group Practice: Pg 18 # 4, 5

① HW: Read Ch. 1-3

Do: Pg 19 # 15, 17

② Study Quiz 2 mistakes.

Prepare yourself for a redo., schedule time to come in (bring a note!)

③ HW 1 is done.

$$0 = 0$$

$$25\% = 25\%, \text{ etc.}$$

UPDATE your "grade worksheets"