

BE-1A **TUESDAY 8-29-06**

① $6(9) - 2(8+5)$

② $4[2 + (18 \div 9)^3]$

③ $9(3) - 4^2 + 6^2 \div 2$

④
$$\frac{(5-2)^2}{3(4 \cdot 2 - 7)}$$

⑤ Name the sets:

⑥ {terminating or repeating decimals}

⑦ {non-terminating, non-repeating decimals}

VOLUNTEERS FOR ① → ④ to board

① 2.8 ② 40 ③ $.9$ ④ 3

(1)
HW Pg 18 #4 Replacement Set
is $\{10, 11, 12, 13, 14, 15\}$

Equation is $3x - 7 = 29$

<u>x</u>	<u>$3x - 7$</u>	<u>$\stackrel{?}{=} 29$</u>	
10	$3(10) - 7 = 30 - 7 = 23$		NO
11	$3(11) - 7 = 33 - 7 = 26$		NO
12	$3(12) - 7 = 36 - 7 = 29$		YES
13	$3(13) - 7 = 39 - 7 = 32$		NO
14	$3(14) - 7 = 42 - 7 = 35$		NO
15	$3(15) - 7 = 45 - 7 = 38$		NO

SOLUTION SET = $\{12\}$

(#5)

SOLUTION SET = $\{15\}$

(2)

Pg 19 #15

Replacement Sets: $a = \{0, 3, 5, 8, 10\}$
 $b = \{12, 17, 18, 21, 25\}$

(15) $34 - b = 22$

<u>b</u>	<u>$34 - b \stackrel{?}{=} 22$</u>
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12	$34 - (12) = 22$	YES
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17	$34 - (17) = 17$	NO
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18	$34 - (18) = 16$	NO
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21	$34 - (21) = 13$	NO
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25	$34 - (25) = 9$	NO
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Solution Set = $\{12\}$

③

How do you read:

$$x < 8$$

$$x \leq 8$$

$$x > 8$$

$$x \geq 8$$

$$x \neq 8$$

These ARE called inequalities

NOT EQUATIONS

Memory Aid

$<$ Looks closest to an L
↗
LESS THAN

(4)

EQUATIONS MATH EXPRESSIONS WITH
AN = SIGN, USE GRE.

INEQUALITIES MATH EXPRESSIONS WITH
A $<$, $>$, $\leq$, or $\geq$ SIGN,
USE GRI. (LATER)

you can have replacement sets
for inequalities, you solve these
just like equations.

EX 3 Pg 17 LOOK

<u>Y</u>	<u>$18 - Y < 10$</u>	
7	$18 - (7) < 10$	? NO
8	$18 - (8) < 10$	? NO, CAREFUL!
9	$18 - (9) < 10$	? YES
10	$18 - (10) < 10$	? YES
11	$18 - (11) < 10$	? YES

SOLUTION SET = $\{9, 10, 11, 12\}$

12 $18 - (12) < 10$ TRUE! OOPS YES

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Group Practice

Pg 19

37

HOMEWORK: Pg 20

Practice Quiz 1
(10 problems).
