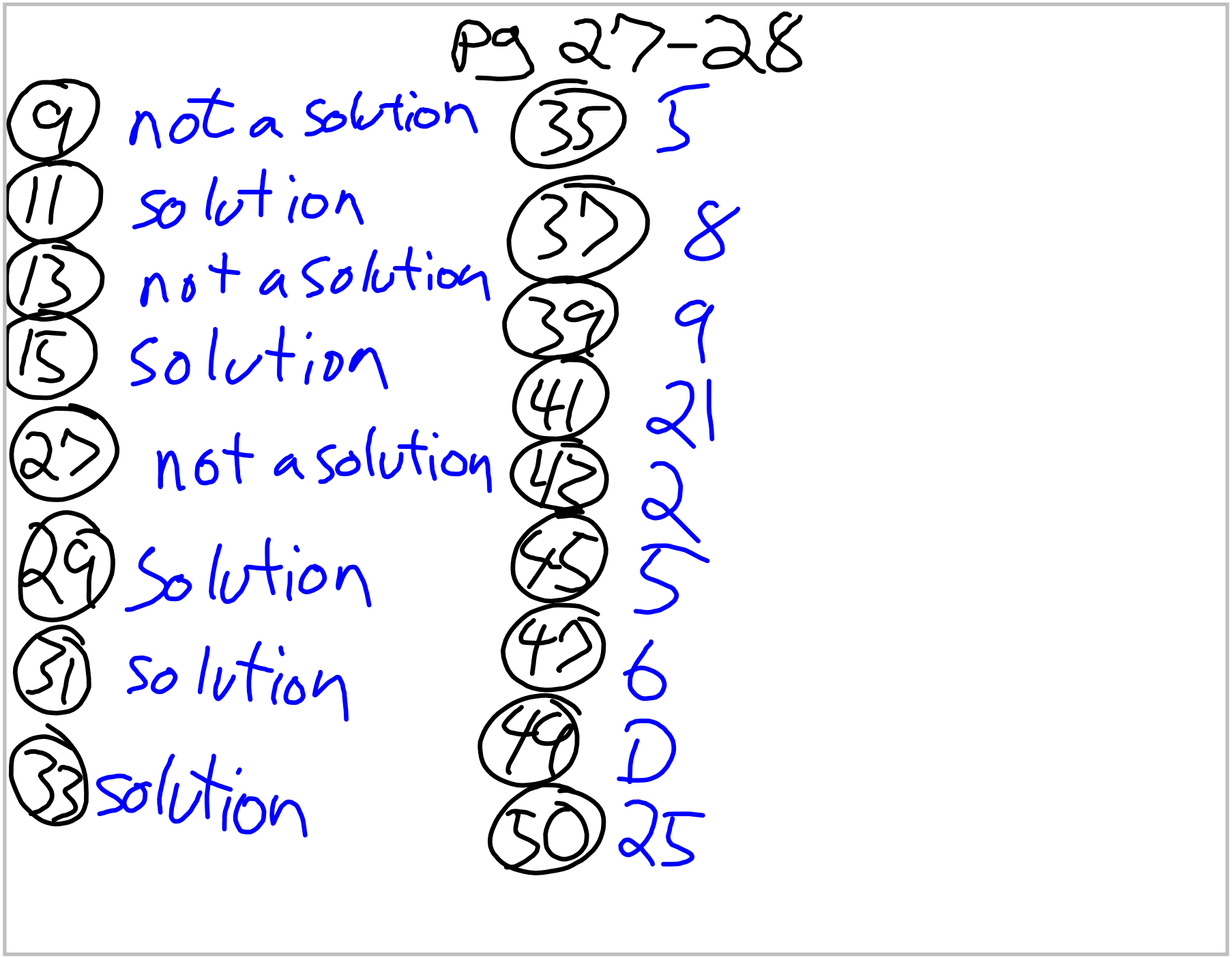

Pg 27-28
9 not a solution
11 solution
13 not a solution
15 solution
27 not a solution
29 solution
31 solution
33 solution
35 5
37 8
39 9
41 21
43 2
45 5
47 6
49 D
50 25

1.4 cont. Inequalities

Sept. 19, 2006

- **Inequalities:** a statement formed by placing an inequality symbol between two expressions.

* Must have an Inequality Sign.

Inequality	Meaning	Example
$<$	less than	$4 < 5$
$>$	greater than	$10 > 5$
$\leq$	less than or equal to	$5 \leq 5$, $5 \leq 7$
$\geq$	greater than or equal to	$20 \geq 10$, $9 \geq 9$

Check Let $x=4$

$x+3 \geq 9$ → exp.

$(4)+3 \stackrel{?}{\geq} 9$

$7 \not\geq 9$

False... 4 is Not a Solution

$2x-1<8$ → exp.

$2(4)-1 \stackrel{?}{<} 8$

$8-1 \stackrel{?}{<} 8$

$7<8$ ✓

True... 4 is a Solution

Check n for $3n-4 \leq 8$

Start at n=2: $3(2)-4 \stackrel{?}{\leq} 8$

$6-4 \stackrel{?}{\leq} 8$

$2 \leq 8$ True.

try n=3 $3(3)-4 \stackrel{?}{\leq} 8$

$9-4 \stackrel{?}{\leq} 8$

$5 \leq 8$ ✓ True!

try n=4: $3(4)-4 \stackrel{?}{\leq} 8$

$12-4 \stackrel{?}{\leq} 8$

$8 \leq 8$ ✓ True!

try n=5 $3(5)-4 \stackrel{?}{\leq} 8$

$15-4 \stackrel{?}{\leq} 8$

$11 \not\leq 8$ False!

False!

$n \leq 4$

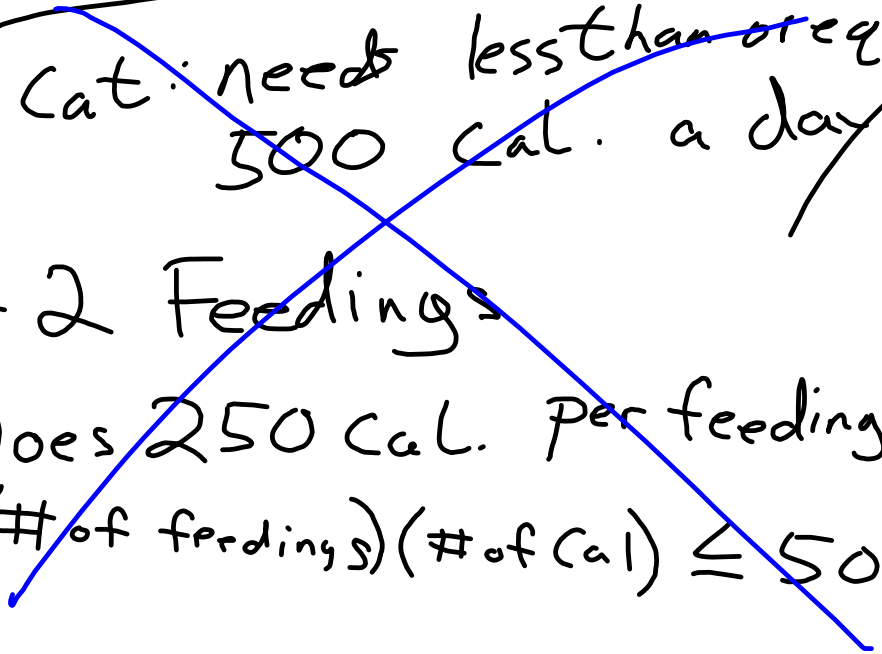
Real Life Math:

* Cat: need less than or equal to 500 cal. a day

* 2 Feedings

Does 250 cal. per feeding work?

(# of feedings)(# of cal) ≤ 500



O.T.L.: work done in Class & Finished if Needed somewhere else.

O.T.L.

① Pg27-29: 1-7(o); 17-25(o); 51-57(o); 61, 63; 65-91 (odd)

ALL