24) C = cost of one CD

$48 + 3c = 7c$

.

a = Paula's age

26.)

Student	5 yrs ago	Now
Ang	$\frac{1}{2}a$	$\frac{1}{2}a+5$
Paula	a	$a+5$

a.) $\frac{1}{2}a+5=\frac{3}{5}(a+5)$ (now)

$\frac{1}{2}a+5=\frac{3}{5}a+\frac{3}{1}$

b.) solve

5-3 Inequalities

greater than $>$ less $<$ greater than

$9 < 10 \quad 10 > 3$

inequality – compares quantities that are not equal.

$<$ $>$ $\leq$ $\geq$

d = price of DVD
$d \geq \$15.00$

d = dogs weight
$d < 50$ lb

$h \geq 40$

$l \leq 35$

$<$
- less than
- fewer than

$>$
- greater than
- is more than
- exceeds

$\leq$
- is less than (or) equal to
- is no more than
- is at most

$\geq$
- is greater than (or) equal to
- is no less than
- is at least

$h \geq 10$

Determine truth of an inequality

Prove Proof

$2t + 8 > 7$; $t = -1$

$2(-1) + 8 > 7$ false

$-2 + 8 > 7$

$6 \not> 7$

$p - 42 \leq -2$; $p = 40$

$40 - 42 \leq -2$

$-2 \leq -2$ less than (or) equal to

True

$x = 6$

$3 + x \leq 12$

$3 + 6 \leq 12$

$9 \leq 12$

true

$y - 7 < 10, \quad y = 17$

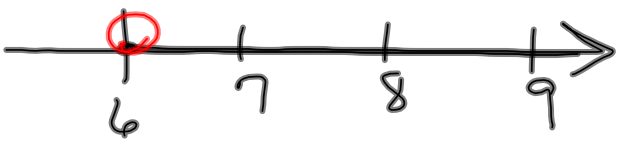
$17 - 7 < 10$

$10 \not< 10$ False

$a > 6$

all of the numbers greater than 6

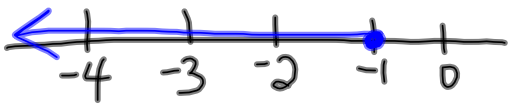
open circle



$6 \not> 6$

$x \leq -1$

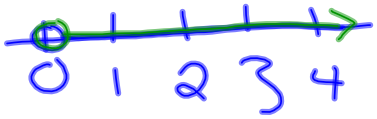
left is less



$x < 5$

$x \geq -2$

$x > 0$



$-3 \leq x$

$x \geq -3$

$x < -2$