

Pg. 168 (8-11, 15, 16, 17-20, 25-28, 29-34, 35-39)

⑧ v is greater than or equal to 5 \* symbol faces the

$$v \geq 5$$

symbol goes here

⑨ b is less than 4

$$b < 4$$

⑩ 3 less than g is less than or equal to 17

first expression      symbol

$$g - 3 \leq 17$$

⑪ The quotient of k and 9 is greater than  $\frac{1}{3}$

division      symbol

$$\frac{k}{9} > \frac{1}{3}$$

⑮  $\frac{6-n}{n} \geq 11$

a) If  $n = .5$

$$\frac{6 - .5}{.5} = \frac{5.5}{.5}$$

11 is equal, so yes!

b) If  $n = 2$

$$\frac{6 - 2}{2} = \frac{4}{2} = 2$$

2 is not equal or greater than 11, so NO!

c) If  $n = 4$

$$\frac{6 - 4}{4} = \frac{2}{4} = .5$$

.5 is not greater than or equal to 11, so NO!

16)  $m(m-3) < 54$

b) If  $m = 0$

a) If  $m = -10$   
 $-10(-10-3)$   
 $-10(-13)$   
 $130$

~~0~~  $0(0-3)$   
 $0(-3)$   
 $0$

130 is not less than 54, so NO!

0 is less than 54,  
so YES!

c) If  $m = 9$

$-10(9-3)$   
 $-10(6)$   
 $-60$

-60 is less than 54, so YES!

17)  $x < -1$

open dot / ~~arrow~~ arrow to left of -1

(D)

18)  $x \geq -1$

closed dot / arrow to right of -1

(B)

19)  $-1 < x$  (x is greater than -1) \* ALWAYS READ VARIABLE FIRST

Open dot / arrow to right of -1

(A)

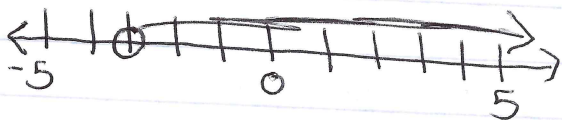
20)  $-1 \geq x$  (x is LESS than or equal to -1)

closed dot / arrow to left of -1

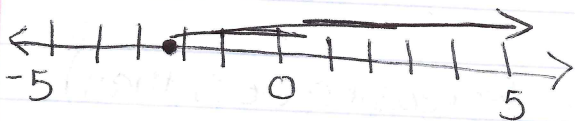
(C)

25)  $-3 < f$  REWRITE  $\rightarrow f > -3$

\*Read  $f$  is greater than  $-3$

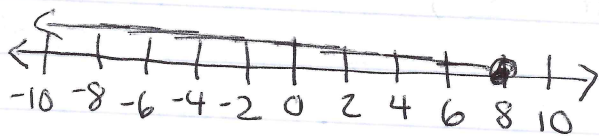


26)  $-\frac{9}{4} \leq c$  or  $-2\frac{1}{4} \leq c$  REWRITE  $\rightarrow$   ~~$c \geq -2\frac{1}{4}$~~

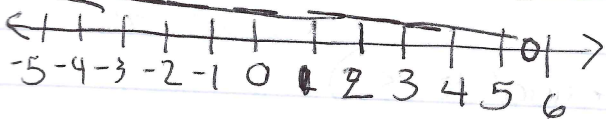


$c \geq -2\frac{1}{4}$

27)  $8 \geq b$  REWRITE  $\rightarrow b \leq 8$



28)  $5.75 > d$  REWRITE  $\rightarrow d < 5.75$



29) open dot  
direction where #'s are increasing (greater)  
 $x > -4$

30) closed dot (equal to)  
direction where #'s are decreasing (less than)  
 $x \leq 8$

31) closed dot (equal to)  
direction where #'s are increasing (greater)  
 $x \geq 2$

(32) open dot  
direction where the numbers are decreasing  
 $x < -7$

(33) closed dot  
direction where the numbers are greater than  
 $x \geq 5$

(34) open dot  
direction where the numbers are decreasing (less than)  
 $x < 2$

(35) at most (less than or equal to  $\leq$ )  
 $p \leq 172$

(36) at least (equal or greater than  $\geq$ )  
 $p \geq 35$

(37) no more than (less than or equal to  $\leq$ )  
 $L \leq 75$

(38) At least (greater than or equal to  $\geq$ )  
 $S \geq 475$

(39) more than (greater than)  $>$   
 $L > \$20,000$