

M3 Worksheet

I - ____
II - ____
III - ____

Nickname: _____ #: _____

Class: _____ Date: _____


I. A. Match the definitions in Column A with the correct answer in Column B. Write the letter of your answer on the space provided.

A


B



_____ 2. \leq

_____ 3. 

_____ 4. $>$

_____ 5. 

_____ 6. $<$

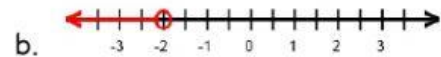
_____ 7. \geq

_____ 8. Greater than means to the _____.

_____ 9. Less than means to the _____.

_____ 10. $y < -2$

a. hollow dot



c. right

d. number line

e. greater than or equal to

f. less than

g. less than or equal to

h. solid dot

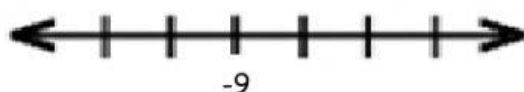
i. left

j. greater than

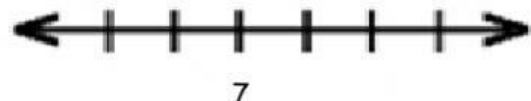
II. A. GRAPH the linear inequalities given below then write its solution in interval notation.

1 - 3) $a > -9$

4 - 6) $b < 7$



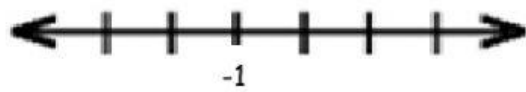
Solution Set: _____



Solution Set: _____



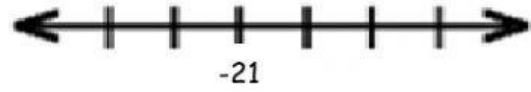
7 - 9) $k \leq -1$



Solution Set: _____



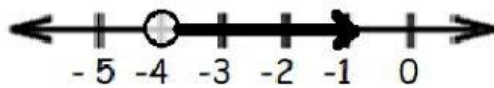
10 - 12) $p \geq -21$



Solution Set: _____

B. Write an INEQUALITY and SOLUTION for each given.

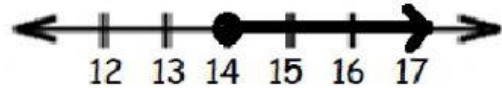
13 - 14)



Inequality: _____

Solution Set: _____

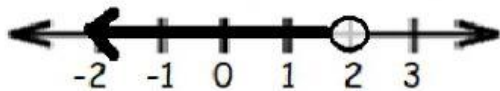
15 - 16)



Inequality: _____

Solution Set: _____

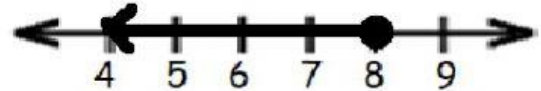
17 - 18)



Inequality: _____

Solution Set: _____

19 - 20)



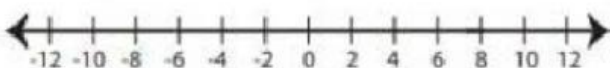
Inequality: _____

Solution Set: _____

III. Solve, graph then write the solution of the given inequality.

1 - 3)

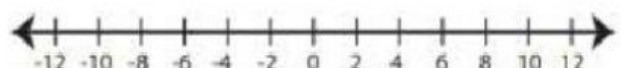
1) $x + 1 < 9$



Solution Set: _____

4 - 6)

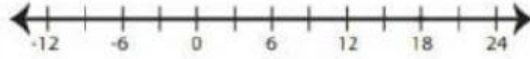
2) $9x \leq 54$



Solution Set: _____

7 - 10)

3) $\frac{x}{3} \geq 6$



Solution Set: _____