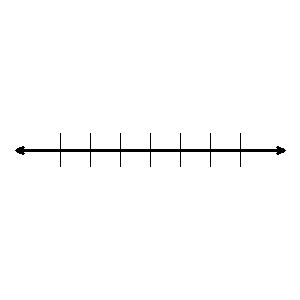
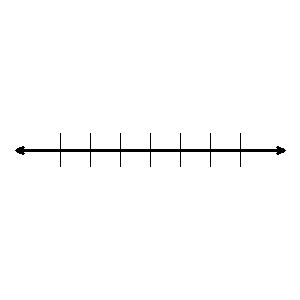
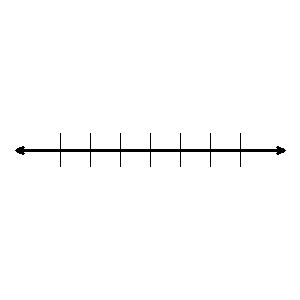
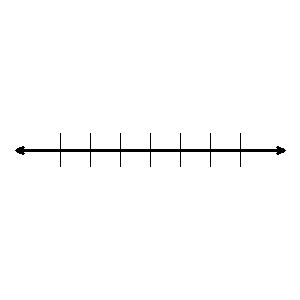
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

Solving Inequalities Using Multiplication and Division Notes

Solve and graph the following inequalities.

1.  2. 

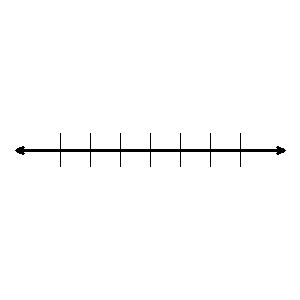
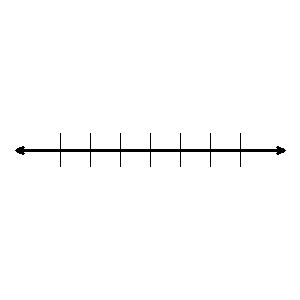


3.  4. 

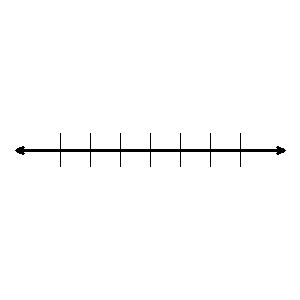
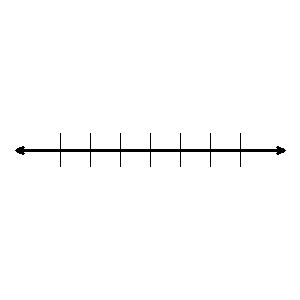
**Rule**: When you multiply or divide an inequality by a negative number, you must change the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. 6. 



7.  8.



Solve each problem with an inequality.

**Phrase: Inequality:**

No more than \_\_\_\_\_\_\_\_\_\_

At least \_\_\_\_\_\_\_\_\_\_

No less than \_\_\_\_\_\_\_\_\_\_

At most \_\_\_\_\_\_\_\_\_\_

A minimum of \_\_\_\_\_\_\_\_\_\_

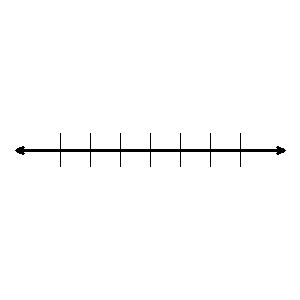
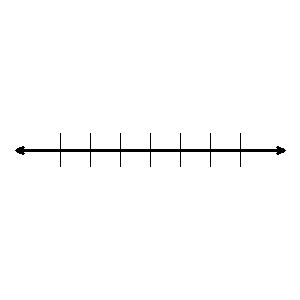
More than \_\_\_\_\_\_\_\_\_\_\_

Less than \_\_\_\_\_\_\_\_\_\_\_

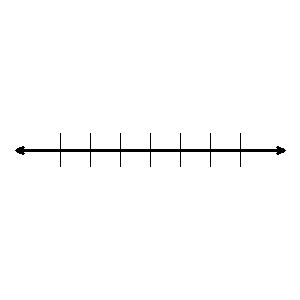
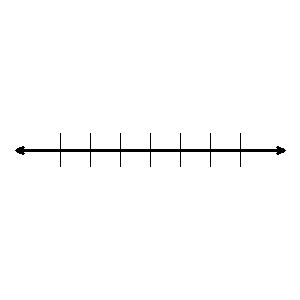
9. Suppose you earn $ 7.50 for every lawn you mow. You need to earn at least $120 to pay for camp. How many lawns must you mow?

10. A gallon jug of milk cost $1.20. What is the greatest number of jugs of milk that you can buy with $10?

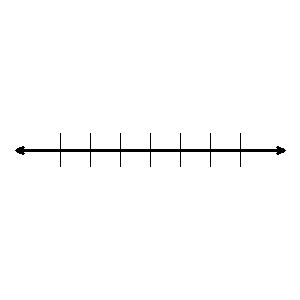
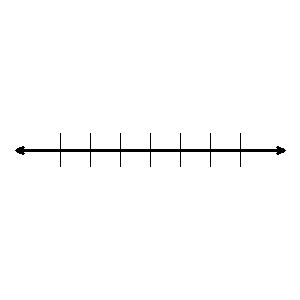
11. 12. 



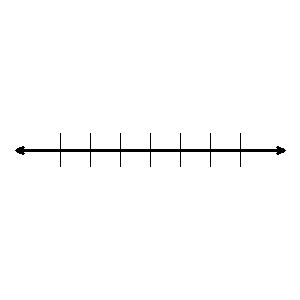
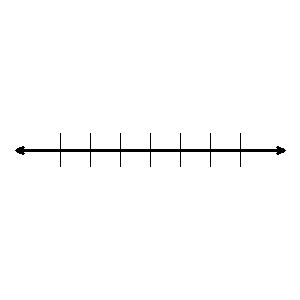
13. 14.



15. 16. 



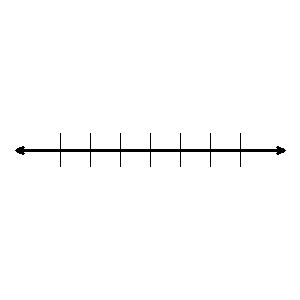
17.  18.



**Underline or highlight the inequality phrase. Write the verbal sentence as an inequality. Solve the inequality and graph your solution on a number line.**

19. The product of 8 and *x* is greater than 50.

Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_



20. The quotient of *v* and -9 is less than -18.

Inequality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_

