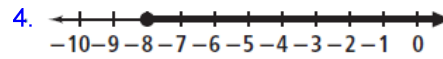
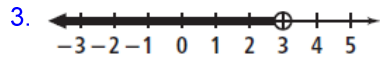
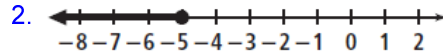
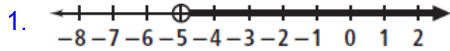


Ch 4.1-4.3 Worksheet

Name: _____

Write an inequality for each graph.



Define a variable and write an inequality to model each situation.

5. A least 20 students were sick with the flu.
6. You can have at most 3 friends go with you to the movies.

Solve each inequality. Graph and check the solution.

7. $8 + m > 4$

8. $-27 \geq w - 24$

9. $13 < 8 + k - 6$

10. $12 + d + 3 \leq 10$

11. $17 < \frac{p}{2}$

12. $-9n \geq -36$

13. $\frac{a}{4} \leq -1$

14. $16d > -64$

15. $-\frac{4}{5}r < 8$

Write and solve an inequality that models each situation.

16. Suppose it takes no more than 25 min for you to get to school. If you have traveled for 13.5 min already, how much longer, at most, might you take to get to school?
17. Joan has started a physical fitness program. One of her goals is to be able to run at least 5 mi without stopping. She can now run 3.5 mi without stopping. How many more miles must she run non-stop to achieve her goal?
18. You need to buy stamps to mail some letters. The stamps cost \$.34 each. What is the maximum number of stamps that you can buy with \$3.84?
19. The Garcias are putting a brick border along one edge of their flower garden. The flower garden is no more than 31 ft long. If each brick is 6 in. long, what is the greatest number of bricks needed?
20. Suppose the physics club is going on a field trip. Members will be riding in vans that will hold 7 people each including the driver. At least 28 people will be going on the field trip. What is the least number of vans needed to make the trip?