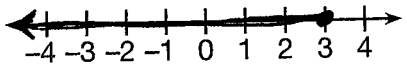
Name Answer Key Class _____ Date _____

Practice 12-2

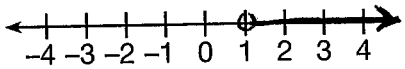
Inequalities

Graph each inequality on a number line.

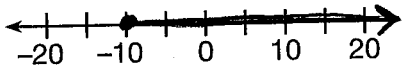
1. $x \leq 3$



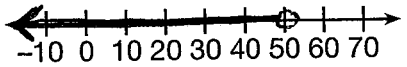
2. $t > 1$



3. $q \geq -10$



4. $m < 50$



For each inequality, tell whether the number in bold is a solution.

5. $x < 7$; **7** no

6. $p > -3$; **3** yes

7. $k \geq 5$; **0** no

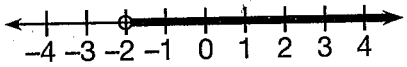
8. $3z \leq 12$; **4** yes

9. $n - 5 > 3$; **6** no

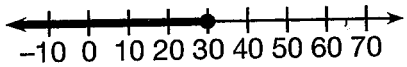
10. $2g + 8 \geq 3$; **−1** yes

Write an inequality for each graph.

11. $x > -2$



12. $n \leq 30$



Write a real-world statement for each inequality.

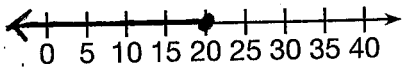
13. $d \geq 60$

14. $p < 200$

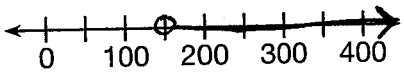
It is at least 60 mi away. The price is under $200.

Write and graph an inequality for each statement.

15. You can walk there in 20 minutes or less.



16. Each prize is worth over $150.



17. A species of catfish, *malapterurus electricus,* can generate up to 350 volts of electricity.

a. Write an inequality to represent the amount of electricity generated by the catfish.

$e \leq 350$

b. Draw a graph of the inequality you wrote in part (a).