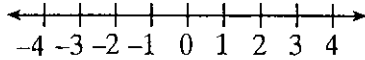


Practice 12-2

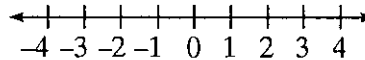
Inequalities

Graph each inequality on a number line.

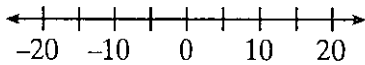
1. $x \leq 3$



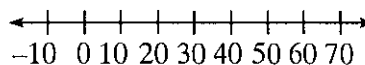
2. $t > 1$



3. $q \geq -10$



4. $m < 50$



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

5. $x < 7$; **7** _____

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

7. $k \geq 5$; **0** _____

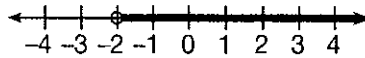
8. $z \leq 12$; **4** _____

9. $n > 3$; **6** _____

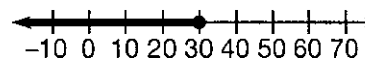
10. $g \geq 3$; **-1** _____

Write an inequality for each graph.

11. _____



12. _____



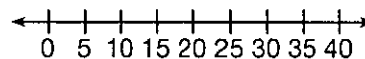
Write a real-world statement for each inequality.

13. $d \geq 60$

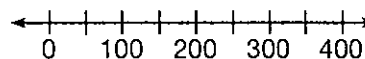
14. $p < 200$

Write and graph an inequality for each statement.

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



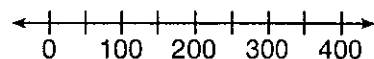
16. Each prize is worth over \$150.



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.

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



Puzzle 12-2

Inequalities

Look at each inequality on the left. Identify the number in each row on the right that does not make the inequality true.

- | | | | |
|----------------|--------|-------|--------|
| 1. $x > 3$ | A. 3 | B. 4 | C. 5 |
| 2. $y \leq 2$ | D. -4 | E. 2 | F. 4 |
| 3. $b < -8$ | A. -6 | B. -9 | C. -10 |
| 4. $i \geq -2$ | D. -2 | E. 0 | F. -3 |
| 5. $r < 7$ | A. -8 | B. 8 | C. 5 |
| 6. $s > -10$ | D. -9 | E. 9 | F. -10 |
| 7. $t \leq 5$ | A. 5 | B. 6 | C. 4 |
| 8. $x \geq -9$ | D. -10 | E. -9 | F. -7 |

Use the table below to check your work. Count 2 points for each A answer, 3 points for each B answer, and so on. The total number of points for the correct answers is 71.

A	B	C	D	E	F
2	3	5	7	11	13

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