

Writing Inequalities

For problems 1 through 6, write an inequality for each statement. Graph the inequality and express the solution set using interval notation.

- 1) The car ride to the park will take at least 30 minutes.



- 2) Every item in the store costs one dollar or less!



- 3) To see the movie, you must be at least 17 years old.



- 3) The speed limit on the highway is at most 65 m.p.h



- 3) To be labeled sugar free, a food product must contain less than 0.5 grams of sugar per serving.

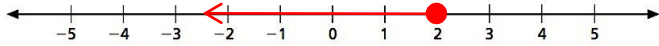


- 3) A species of catfish, *malapterurus electricus*, can generate up to 350 volts of electricity.

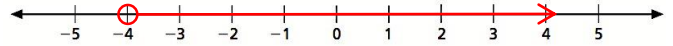


Write the inequality represented by each graph in problems 7 through 10.

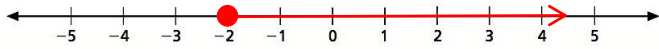
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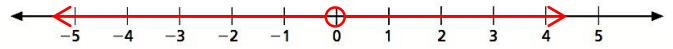
8)



9)



10)



For problems 11 through 14, circle the number that is a solution for each inequality

11) $x < 1$

-2, 1, 2

12) $x > -5$

-7, -5, -1

13) $x \leq -9$

-12, -4, 2

14) $x < -8$

-10, -5, 0