a. between -5 and 6, not including the endpoints.

	, ,		
Inequality Notation	Graphical Notation	Interval Notation	Type of Interval

b. less than 1.5.

Inequality Notation	Graphical Notation	Interval Notation	Type of Interval

c. greater than or equal to -5.

Inequality Notation	Graphical Notation	Interval Notation	Type of Interval

d. between -4 and 0, including the endpoints.

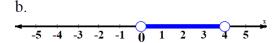
Inequality Notation	Graphical Notation	Interval Notation	Type of Interval

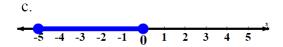
e. including -3.5, but excluding 2.

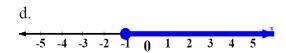
Inequality Notation	Graphical Notation	Interval Notation	Type of Interval

2. Write the given graphical intervals in interval notation.

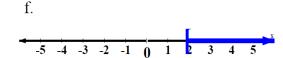


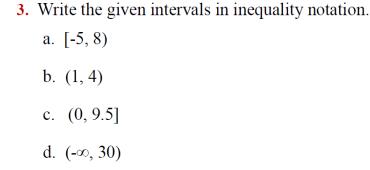














- **4.** Missy was asked to write x > -9 in interval notation. Her answer was $(-9, \infty]$ but her instructor marked it wrong. Explain why.
- **5.** For example, in order to enlist in the military, you must be at least 17 years old and younger than 35. As an inequality, it would be written like this: $17 \le x < 35$ In interval notation, that would be written like this: [17, 35), a half-open interval.

Your final task for this assignment is to write a real-life problem that can be described in which the solution can be described in interval notation, then express the situation in interval notation.

Suggestions: percentage grade required to get a certain letter grade, the elevation of anything on the 4th floor of a building, the amount of gas in a tank before the fuel warning light turns on, etc.