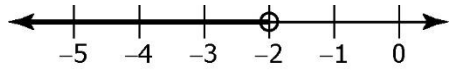
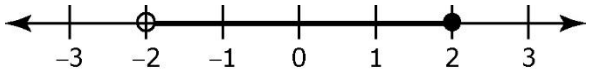
Name: _____ Date: _____

BLM 9–5

Section 9.1 Extra Practice

1. Write a word statement to express the meaning of each inequality.

Inequality	Word Statement
a) $m > -2$	
b) 	
c) 	
d) $m \geq 2$	

2. Circle true or false for each of the following statements. If the statement is false, rewrite it to make it true.

a) **True / False** A closed circle indicates that the boundary point is not a possible value.

_____

_____

b) **True / False** The inequality $-4 < x$ means x is greater than -4.

_____

_____

c) **True / False** A boundary point is always shown on a number line using an open circle.

_____

_____

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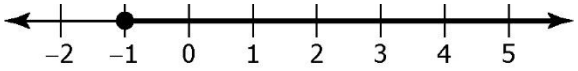
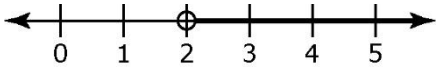
(continued)

For #3 to #6, fill in the missing information.

a) Represent the inequality verbally using a real-life context.

b) Represent the inequality graphically.

c) Represent the inequality algebraically.

a) Verbally	b) Graphically	c) Algebraically
Example: The height of a rocket that is launched 1 m below sea level		$h \geq -1$, where h is the height of the rocket
3. The temperature below −4 ºC		
4.		$2 \geq x$
5.		
6.		$x \geq 0$ and $x \leq 5$