

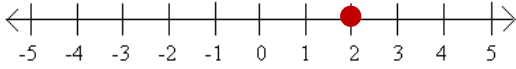
Name:

Date:

Period:

Use the following examples as a guide to complete worksheet below.

Example 1:



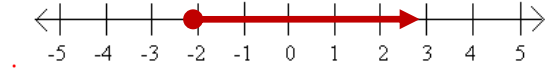
(a) The set of all real #s equal to 2.

(b) $\{x \mid x \text{ is all real \#s equal to } 2\}$

(c) $[2]$

(d) $4x + 8 = 16$
 $4x = 8$
 $x = 2$

Example 2:



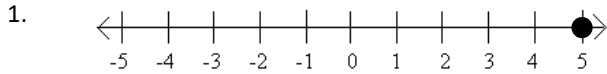
(a) The set of all real #s greater than or equal to -2.

(b) $\{x \mid x \text{ is all real \#s } \geq -2\}$

(c) $[-2, \infty)$

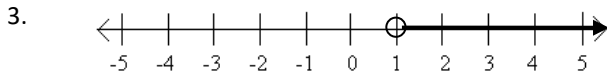
(d) $6x + 26 \geq 14$
 $6x \geq -12$
 $6 \quad 6$
 $x \geq -2$

For each solution set graphed below, (a) describe the solution set in words, (b) describe the solution set in set notation, (c) write the solution set using interval notation, and (d) write an equation or an inequality that has the given solution set and prove your example works.



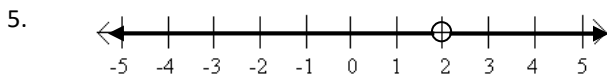
(a) (b)

(c) (d)



(a) (b)

(c) (d)



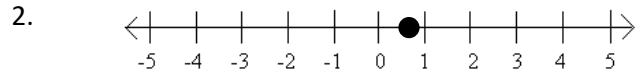
(a) (b)

(c) (d)



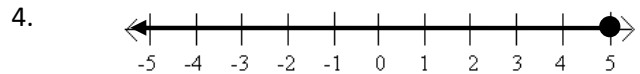
(a) (b)

(c) (d)



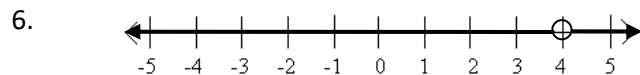
(a) (b)

(c) (d)



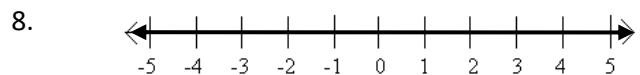
(a) (b)

(c) (d)



(a) (b)

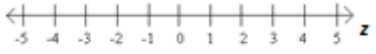

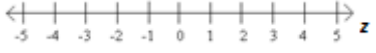
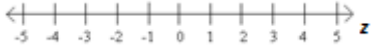
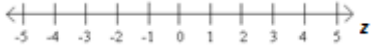
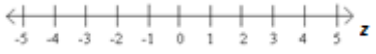

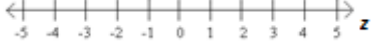
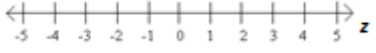
(c) (d)



(a) (b)

(c) (d)

Complete the chart below. In some cases, you must solve for the variable first. Remember to solve an equation/inequality, use inverse operations.

	SET NOTATION {x x is.....}	INTERVAL NOTATION Use proper brackets	GRAPH Graph Appropriately
9. $z = 2$			
10. $z^2 = 4$			
11. $4z \neq 2$			
12. $z - 3 = 2$			
13. $z^2 + 1 = 2$			
14. $z = 2z$			
15. $z > 2$			
16. $z - 6 = z - 2$			
17. $z - 6 < -2$			
18. $4(z - 1) > 4z - 4$			