Name _____ Class _____ Date _____

3-1 Practice

Form G

Inequalities and Their Graphs

Write an inequality that represents each verbal expression.

1. v is greater 10.

2. b is less than or equal to -1.

3. the product of g and 2 is less than or equal to 6.

4. 2 more than k is greater than -3.

Determine whether each number is a solution of the given inequality.

5. $3y + 5 < 20$ **a.** 2 **b.** 0 **c.** 5

6. $2m - 4 \geq 10$ **a.** -1 **b.** 8 **c.** 10

7. $4x + 3 > -9$ **a.** 0 **b.** -2 **c.** -4

8. $\frac{3-n}{2} \leq 4$ **a.** 3 **b.** 2 **c.** -10

Graph each inequality.

9. $y < -2$

10. $t \geq 4$

11. $z > -3$

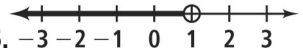
12. $v \leq 15$

13. $-3 \geq f$

14. $-\frac{5}{3} < c$

Write an inequality for each graph.

15.



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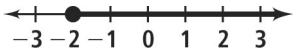
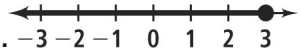


17.

18.



Define a variable and write an inequality to model each situation.

19. The school auditorium can seat at most 1200 people.

20. For a certain swim meet, a competitor must swim faster than 23 seconds to qualify.

21. For a touch-typing test, a student must type at least 65 wpm to receive an "A ."