Name _____ Date _____

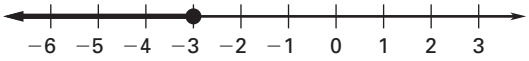
LESSON 5.1

Practice C

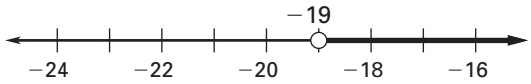
For use with the lesson "Solve Inequalities Using Addition and Subtraction"

Write an inequality that is represented by the graph.

1.



2.



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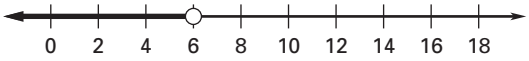

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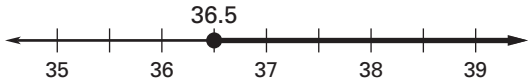
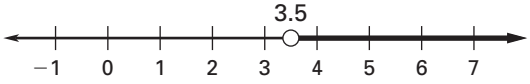
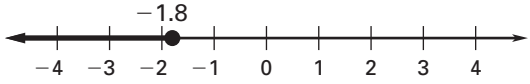


5.



6.

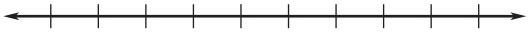


Solve the inequality. Graph your solution.

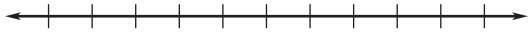
7. $y - 4.6 > 13$

8. $m + 2.1 \leq 5.5$

9. $a - 7 < -0.25$

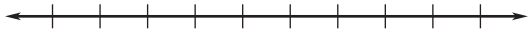


10. $d - 6.25 < -4.3$

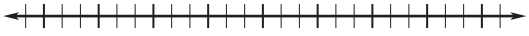


11. $x + 14.7 \geq -35.6$

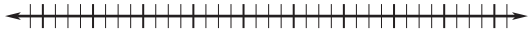
12. $22.3 \geq c - 16.5$



13. $x - 8\frac{2}{3} \geq 21$



14. $n + 3\frac{3}{4} < \frac{1}{2}$

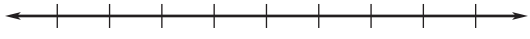


15. $p - 1\frac{1}{3} < 10\frac{4}{5}$

16. $c + \frac{4}{5} < \frac{2}{3}$

Write the verbal sentence as an inequality. Then solve the inequality and graph your solution.

17. The sum of m and 14 is greater than -22.



Name _____ Date _____

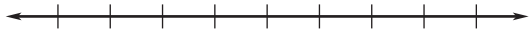
LESSON 5.1

Practice C *continued*

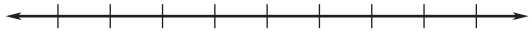
For use with the lesson "Solve Inequalities Using Addition and Subtraction"

18. Fifteen is less than or equal to the sum of -8 and n.

19. The difference of y and 1.25 is greater than or equal to -6.4.



20. The sum of p and -3.75 is less than -2.25.



21. Write and graph an inequality that represents the numbers that are not solutions of $x - 15 \leq 2.8$.

22. **Miniature Golf** You and your friend are competing at a miniature golf tournament. The tournament is won by the person with the lowest score after 3 rounds. The table shows all of your friend's scores and your first two scores.

Round	Friend's score	Your score
1	58	60
2	62	58
3	65	?

a. Write and solve an inequality to find the scores s that you can earn in your last round in order to beat your friend.

b. Will you beat your friend if you score a 62? a 67? a 71? *Justify* your answers.

23. **Shelf Brackets** A pair of shelf brackets can hold no more than 125 pounds. The table shows different shelf materials and the weight of each shelf. Each shelf is the same size.

Shelf Material	Medium density fiberboard	Particle board	Metal	Glass
Weight (lb)	3	1.8	3.5	5

a. For each type of shelf material, write and solve an inequality to find the possible weights w in pounds that the shelf brackets can hold if the shelf material weighs the given amount.

b. Which shelf material should you use if you want to put books on the shelf that weigh a total of 122 pounds? *Explain.*