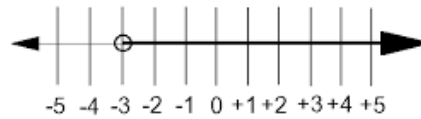


Name _____

Date _____

UNIT 7 REVIEW SHEET

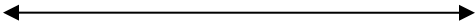
1. Write an inequality that represents the solution set shown by the graph



2. Which value of x is a solution to the inequality $2x - 12 < -4$?

- a. 4 b. -4 c. 8 d. 5


3. Given $t - 3 > -5$, what step can be used to obtain the equivalent inequality $t > -2$?

4. Graph the inequality $-3 \geq y$ on the number line. 

5. Solve the inequality $-4p > 20$ and graph 

a. What is one possible value of p ?

b. What is not a possible value of p ?



6. Graph the solution to $7 \leq a$ on the number line. 

7. Translate into an inequality: the price of a meal, m , is at least \$22.50 _____

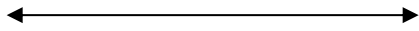
8. Translate: the weight of a person, w , cannot exceed 200 lbs for a certain ride at the carnival. _____

9. Translate: the minimum cost, c , of a shirt at a store is \$22. _____

Solve each inequality and graph the solution set on the number line.

<p>9. $4y < -16$</p> <p></p>	<p>10. $-2x - 6 \geq 10$</p> <p></p>
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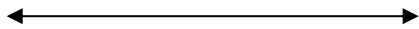
11. $-\frac{1}{4}d + 4 \leq -2$



12. $-8 < 2y - 2$



13. $4x + 18 - x < 6$



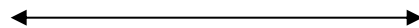
14. $6x - 7 \geq -4x + 26$



15. $3 - (2x - 5) > 4x + 24$



16. $-15 > 3y - 6$



17. What is the **largest possible integer** in the solution set to the following inequality?

$$1 - 2x \geq -10$$

For each problem below, (a) define your variable, (b) write the inequality, (c) solve the inequality, and (d) answer the question.

18. Ten less than the product of seven and a number is at most 38. What is the largest integer p could represent?

19. A cell phone plan charges \$55 a month, plus \$0.15 per text message. Write an inequality that can be solved to find out how many text messages can be sent while still keeping the monthly bill under \$100.

20. The sum of three consecutive integers is greater than 123. What are the smallest values for the three integers?