

Name _____ Pd _____ Date _____ **1.D Quiz Study Guide**

Directions: Turn in on the day of your quiz to earn +5 EXTRA CREDIT on your quiz. SHOW ALL WORK!

Write (in algebra) the inequality and graph the solution set.

1) All real numbers h that are less than or equal to 5. 2) All real numbers g that are greater than -2 .

Rewrite the inequality with the variable first. Graph the solution set.

3) $5 < r$

4) $10 \geq k$

Solve the inequality. Graph the solution set.

5) $4x > -16$

6) $-\frac{k}{3} \leq -2$

7) $\frac{h}{2} < -5$

8) $-3x \geq -9$

9) $x + 5 \leq -4$

10) $-6 + y > -15$

11) $7 \leq -\frac{w}{3}$

12) $12 < 4d$

Which number is a solution of the inequality?

13) $7.1 < x$

- a. 5 b. -2.3 c. 10 d. 6.9

14) $-6.1 > y$

- a. -6 b. -6.5 c. -5.5 d. 5

Write and solve an inequality for each scenario.

15) Nina wants to save a minimum of 8 candies for later. She has already saved 3. Write and solve an inequality for the possible number of candies, c , Nina still has to save.

16) Chris owes Devin \$10, but he is going to make some money raking leaves on neighbors' lawns over the weekend. He wants to end up with at least \$50 to keep. What is the acceptable range of money, m , he needs to make raking leaves?

17) Harry earns \$8.50 per hour working at his job after school. He wants to earn no less than \$170 in a week. What is the acceptable range of hours, h , he needs to work?

18) Kristen is splitting up all her hair ties based on color. She wants no more than 3 hair ties of any color. What is the possible range of how many hair ties, t , she should have if there are 8 different colors?