

2-1 Homework Which One?

Name _____

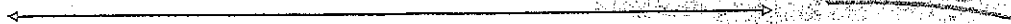
Match each sentence in column 1 with its algebraic inequality in column 2. Record the letter match in front of the sentence. When finished, you will see a message! There is an on-line match game to check your answers. Your teacher will give you the address and passwords.

1. A number x is less than 8.
2. A number x is at least 8.
3. Eight is greater than or equal to x .
4. Kyle's age, x , is at most 12.
5. A number x is greater than 12.
6. Eight less than twice x , is greater than 12.
7. Twice the sum of x and 8 is less than 12.
8. The sum of twice x and 8 exceeds 12.
9. A number of inches, x , is at least 12.
10. Cyclops' height, x , exceeds 8 feet.
11. Twice x is not more than 9.
12. Angela's age, x , is greater than 9.
13. Two less than x is at least 9.
14. Two more than x is at most 9.
15. The number of feet, x , does not exceed 9.
16. To enter, your age, x , must be at least 9 years.
17. Twice the sum of x and 1 is less than 9.
18. Nine less than x , is less than 2.
19. The product of 8 and x is at most 9.
20. Twice x exceeds 9.

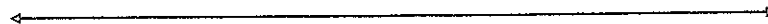
- H. $2x \leq 9$
- O. $x \leq 12$
- E. $2(x + 8) < 12$
- P. $x + 2 \leq 9$
- R. $x \geq 8$
- R. $x \geq 9$
- S. $2x + 8 > 12$
- T. $2x > 9$
- A. $x > 9$
- U. $x < 8$
- E. $x \leq 9$
- S. $x \geq 12$
- N. $x \leq 8$
- E. $x - 9 < 2$
- T. $x > 8$
- T. $x > 12$
- C. $8x \leq 9$
- L. $2x - 8 > 12$
- N. $x - 2 \geq 9$
- F. $2(x + 1) < 9$

Directions: Graph the solution set of each inequality. Indicate a scale.

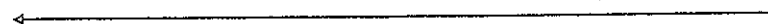
1. $x > 6$



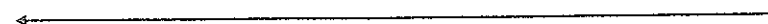
2. $x \leq -3$



3. $x \geq 4$



4. $x < 0$



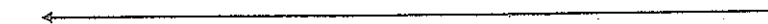
5. $-1 < x < 6$



6. $2 \leq x \leq 4$



7. $x \geq 2$ or $x < -2$



8. $x < 3$



9. $-2 < x \leq 2$



10. $x \geq -3$

