

Name: \_\_\_\_\_

Period: \_\_\_\_\_

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HOMEWORK 4-3  
Solving inequalities

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Unit 4

**Review**

Name the property shown by the following:

1.  $3(x+8) = 3x + 24$

4.  $(9+8)+4 = 9+(8+4)$

7.  $-3+9 = 9+-3$

2.  $(5+2)+3 = (2+5)+3$

5.  $7(5+8) = 35+56$

8.  $(2+x)+7 = 2+(x+7)$

3.  $6 \cdot 1 = 6$

6.  $7+0 = 7$

9.  $-4+4 = 0$

Solve each equation.

10.  $x + 2 = 5$

11.  $6 = b - 4$

12.  $6h = 24$

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Solve each inequality.

13.  $-2y < 14$

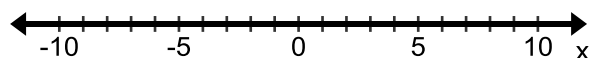
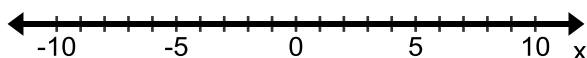
14.  $3w \leq 27$

15.  $\frac{x}{5} > 3$

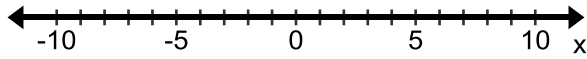
Solve and graph each inequality.

16.  $-12 > w - 10$

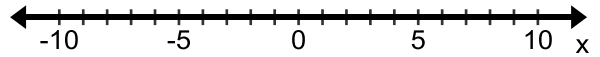
17.  $x - 1 > 3$



18.  $-0.9x \geq 7.2$

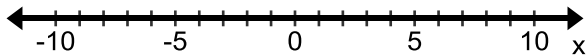


19.  $2x \geq 4$



Solve and graph each inequality, then determine if the given number is a solution.

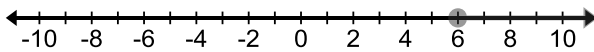
20.  $\frac{y}{-4} \geq 2$



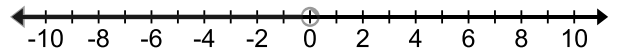
21. Is  $x = -6$  a solution to the inequality in #20?

Write an inequality for each graph and name 3 solutions for  $x$ .

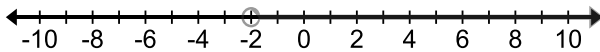
22.




24.



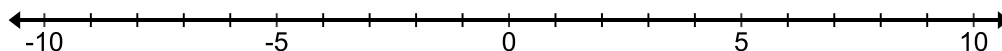

23.




Graph each inequality and name 3 solutions for  $x$ .

25.  $x \leq -2$





26.  $x > -8$



