

Name: _____ Date: _____

HW: Solving with inequalities (it's a quiz review!)

Solve each inequality then graph on a number line

1) $5(x + 2) < 30$

2) $8 \leq 4x - 12$

3) $6 - 3x < 42$

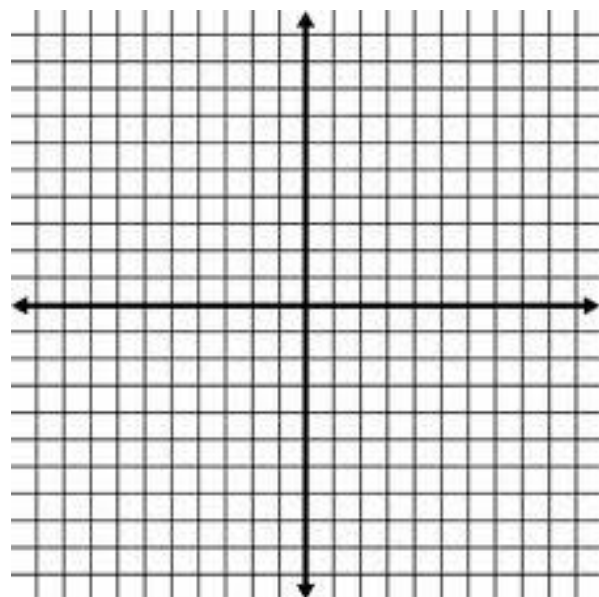
4) $-\frac{x}{4} \geq 2$

5) $4x + 3 < 4x$

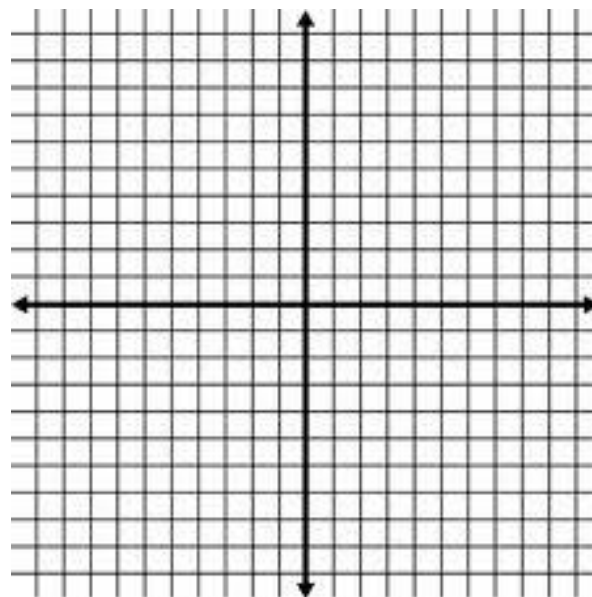
6) $2(x + 1) > 2x - 4$

Graph each single inequality

7) $y - 5 < -\frac{3}{2}x$



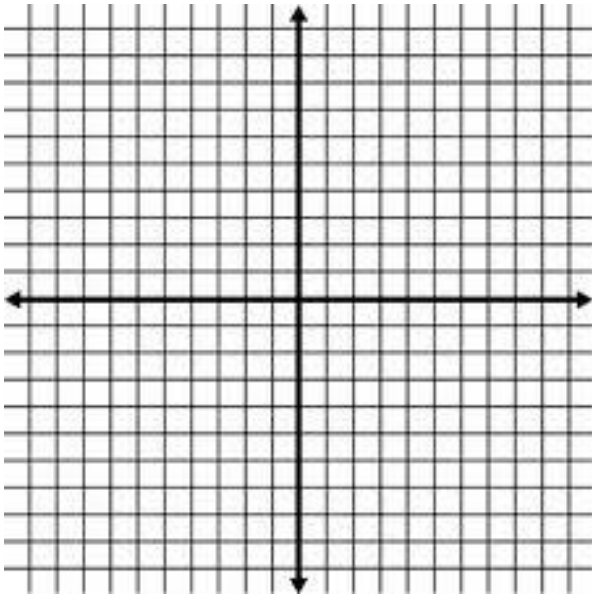
8) $x + y \geq 1$



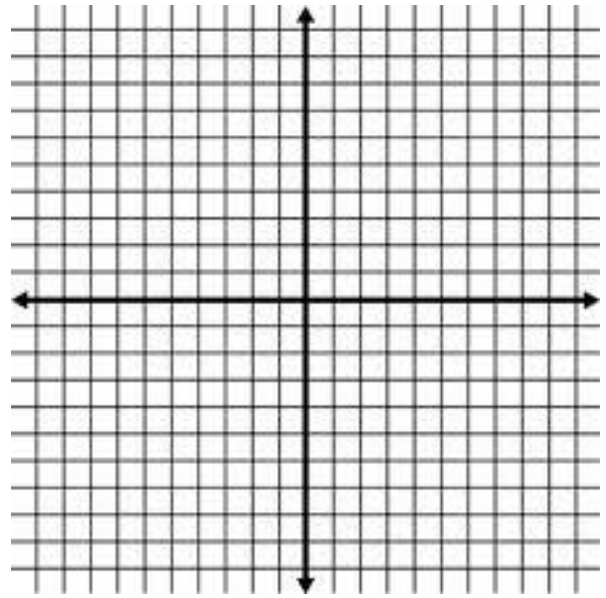
FLIP TO BACK!

Graph each system of inequalities

9) $y \geq 2x - 5$
 $y > x - 1$



10) $x < 2$
 $y \geq \frac{1}{3}x + 2$



Word Problems! (hint- two of them are systems of EQUATIONS not inequalities)

11) Pete has \$34 to spend on flowers for his girlfriend for valentines day. He plans on buying a vase which costs \$14.99. If each flower costs \$1.50 how many flowers can he buy without going over his limit?

12) Jake bought 4 t-shirts and 3 pairs of sunglasses for \$61.25 and his buddy Finn bought 2 shirts and 9 pairs of sunglasses for \$58.75. What is the cost of one t-shirt and one pair of sunglasses?

13) The PE department bought new basketballs and soccer balls for team sports. They ordered a total of 25 balls. Soccer balls cost \$12 and Basketballs cost \$14.50. The total bill to the school came out to be \$337.50. How many of each type of ball did the PE department get?