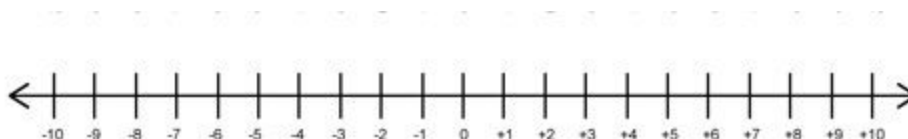## Solving and Graphing One Step Inequalities **Practice ws #1**

Solve the following, and graph the solutions on number lines. Check your solutions with at least 1 value.

1. $x - 5 > 10$

2. $2.5 + w \leq -15$

3. $7 + y < -4$

4. $\frac{3}{4} x \geq 9$

5. $4.2n < 12.6$

6. $m - 1.78 \geq 23.22$

7. $w/7 \leq -4$

8. $16.8 > 4.2g$

Solving and Graphing One Step Inequalities **Practice ws #1**

$$\longleftarrow \underset{\underset{-10\ \ -9\ \ -8\ \ -7\ \ -6\ \ -5\ \ -4\ \ -3\ \ -2\ \ -1\ \ 0\ \ +1\ \ +2\ \ +3\ \ +4\ \ +5\ \ +6\ \ +7\ \ +8\ \ +9\ +10}{|\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |\ \ |}} \longrightarrow$$

9. A type of tropical fish for your aquarium cost $6 each. You can spend at most $42. How many of these fish can you buy? Write an inequality to model this situation. Let f = the number of fish you can buy. Solve your inequality.

In 10 - 13, define your variable/s. Write an inequality to describe the situation.

10. Cory has at least $5.78. _____

11. Hannah has more than 7 skirts. _____

12. Vance has at most 13 guppies in his fish tank._____

13. Tyler has less than $7.17 _____

14. Circle **all** values below that are solutions to the inequality: $-3 > y$

    a)   5   b) -4   c) 0   d) -1

15. Circle **all** values below that are solutions to the inequality: $w \geq -5$

    a)   3   b) -5   c) -7   d) 1