

Unit 6: Linear Equations

Name: _____

6.5: Solving Linear Inequalities by Using Multiplication and Division - Worksheet

1. Do not solve each inequality. Determine which of the given numbers are solutions of the inequality.

a) $3t < -5$
-3, 0, 1

b) $5 - 3d \geq 2 - d$
-5, 0, 5

2. Solve each inequality and graph the solution.

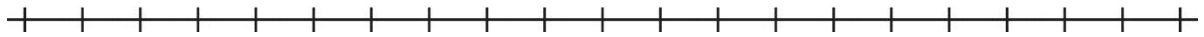
a) $-3.5a < -1.3a + 6.6$



b) $-\frac{5f}{6} - \frac{2}{3} > \frac{4}{3}$



c) $1.3 - 2.5x \leq -1.1x - 0.52$



d) $-3(n - 2.5) \leq 4(3.5 - n)$



3. Nadia gets paid \$1000 per month plus 5% commission on her sales. She wants to earn at least \$2200 this month. Write an inequality to represent this situation, then solve it to determine how much Nadia must sell to reach her goal.