

Inequalities Worksheet #5

Name: _____

Date: _____

Period: _____

Define the variable and write an inequality to model each situation like the foldable we completed in class.

1. It is not safe to use a light bulb of more than 60 watts in this light fixture.

2. The Navy's flight squad, the Blue Angels, makes a minimum of 75 appearances a year.

Solve each inequality, check your solution, and graph your solution.

3. $7x - (6x - 2) \leq -3$

4. $-6(y + 2) < 12$

5. $-3(4 - m) \geq 4(2m + 1)$

6. $3x + 2 > -4x + 16$

7. $9 + x < 7 - 2(x - 3)$

8. $2(m - 8) < -8 + 3m$

Solve each inequality, check your solution, and graph your solution.

9. $-(6b - 2) > 0$

10. $2v - 4 \leq 2(3v - 6)$

Write an expression that represents each sentence.

11. The product of three and an unknown number is less than 8.

12. The sum of an unknown number and 10 is at least 15.

13. Three times the quantity of z plus 2 is greater than 12.