

Name: _____ Hour: _____

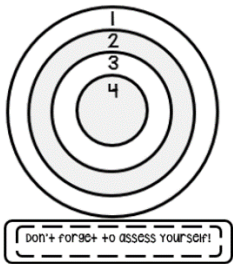
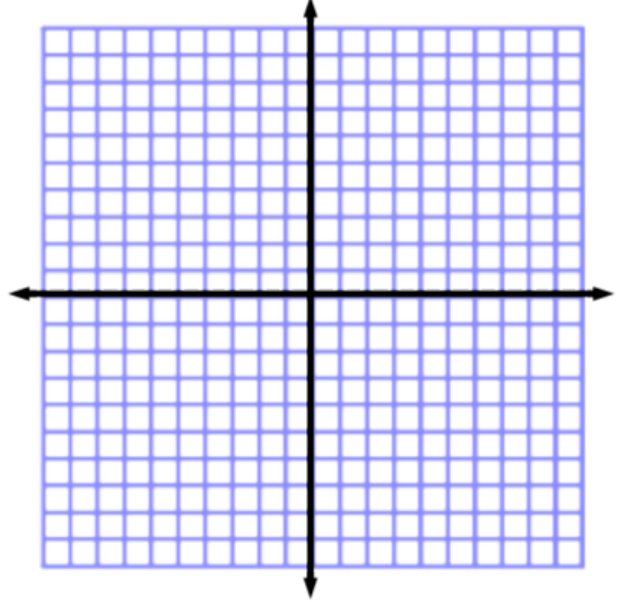
Standard: A-CED.1 Create inequalities in one variable and use them to solve problems.

Standard: A-CED.3 Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context.

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Suppose you are shopping for streamers to decorate the school gym for the 8th grade dance. Gold streamers cost \$5 per roll and red streamers cost \$3 per roll. Your budget allows you to spend at most \$48. How many rolls of streamers can you buy without going over your budget?

- 1.) Define your variables.
- 2.) Write a linear inequality that describes the situation.
- 3.) Graph the linear inequality.
- 4.) Write three possible solutions to the problem.
- 5.) The point (-2, 5) is a solution of the inequality. Is this a solution of the problem? Explain.



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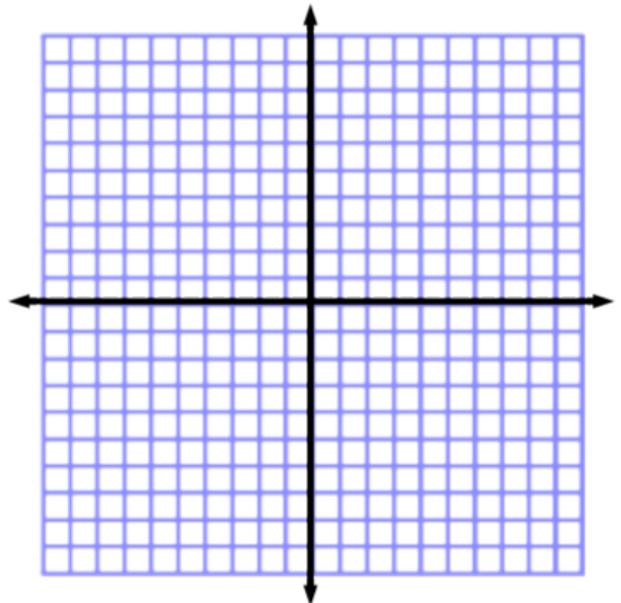
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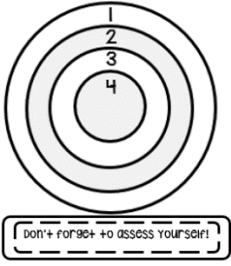
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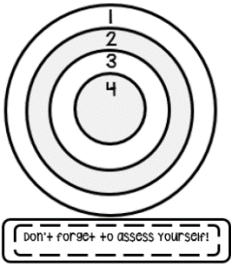
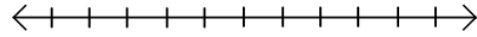
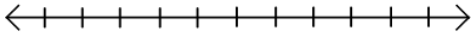
Standard: A-REI.3 Solve linear inequalities in one variable.

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Directions: Solve the inequality and graph the solution on a number line.

1.) $4x + 4 - 3x \geq 5$

2.) $-6(a + 2) + 7a < 12$



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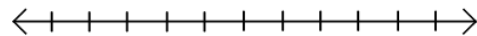
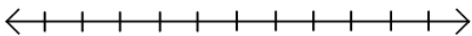
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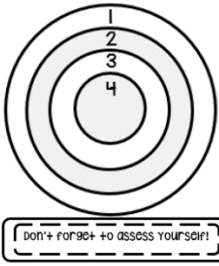
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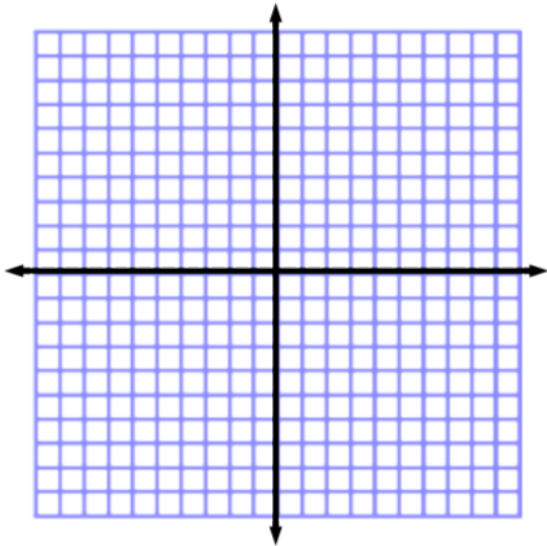
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Standard: A-REI.12 Graph the solutions to a linear inequality in two variables as a half plane, and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.

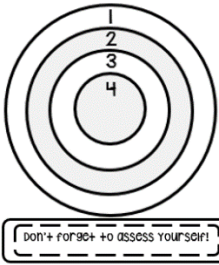
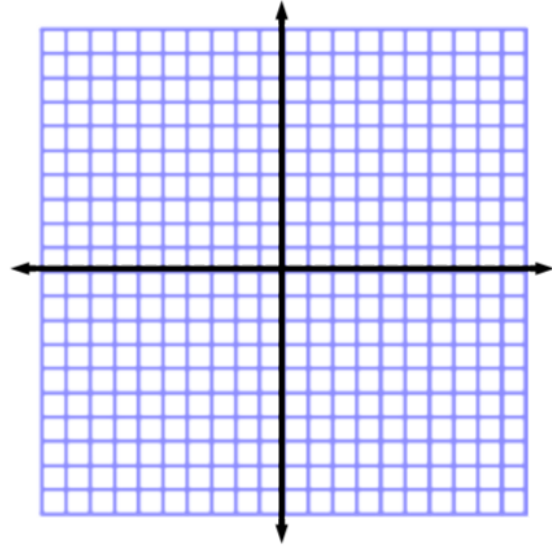
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Directions: Graph the system of inequalities and identify the solution.

1.) $y \geq \frac{2}{3}x - 3$
 $2x - 3y \geq -9$



2.) $y > 4x + 1$
 $y < 4x - 2$



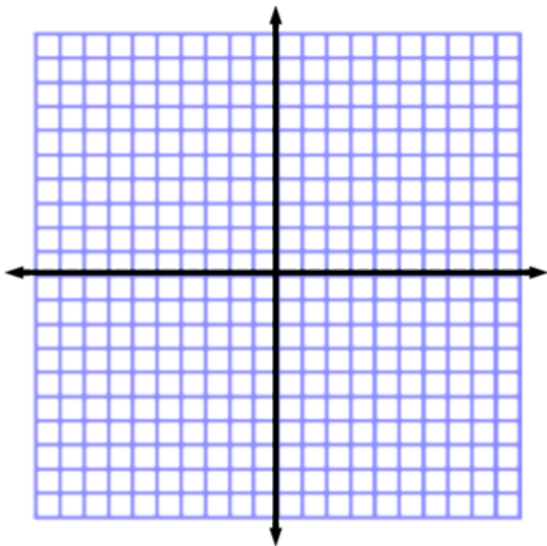
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