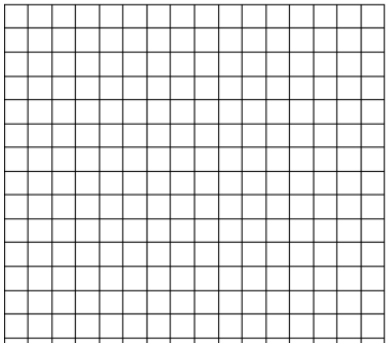
Inequality Make-Up Activity

Name_____Period_____

1.

$y \le \frac{1}{2}x + 2$

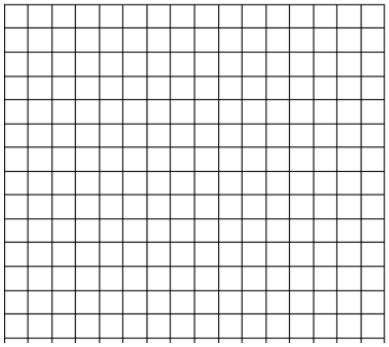
$y < -2x - 3$



2.

$y \ge \frac{2}{3}x + 3$

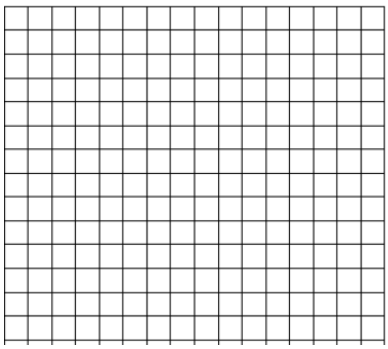
$y > -\frac{4}{3}x - 3$



3.

$-5x + 4y > -16$

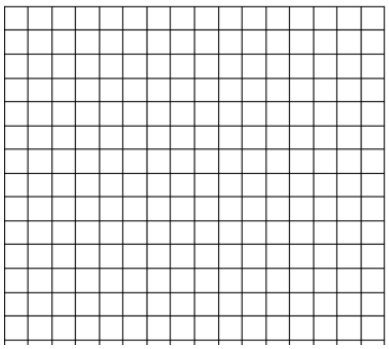
$x + 4y \ge 8$



4.

$-7x + 3y \ge 15$

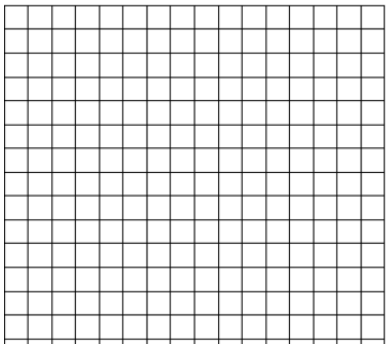
$y \ge -2$



5.

$3x + 2y \ge -2$

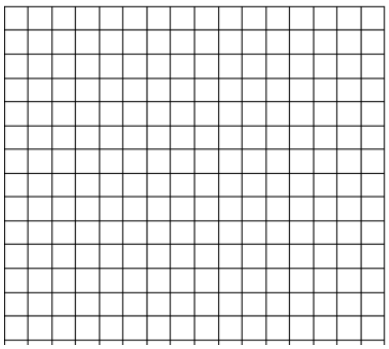
$x + 2y \le 2$



6.

$4x + 3y > -6$

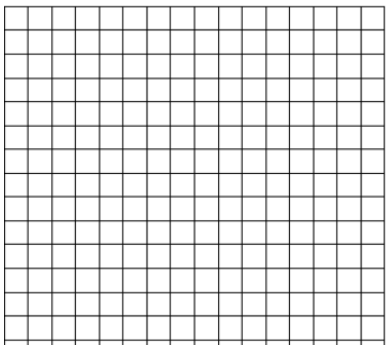
$x - 3y \le -9$



7.

$x \le -3$

$y < \frac{5}{3}x + 2$



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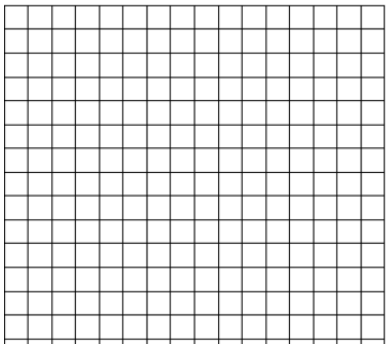
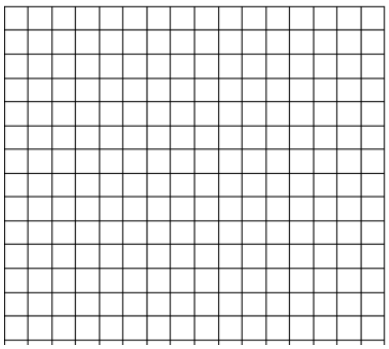
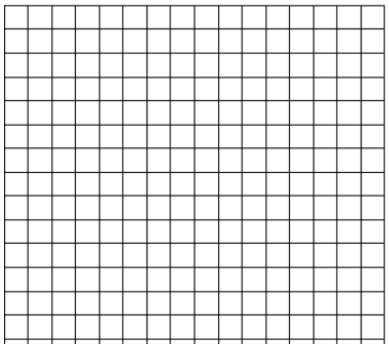
|---|---|
| 8.<br>Nancy and her family are at the movies and wish to purchase some popcorn. A large popcorn costs $6 and a small popcorn costs $2. Nancy has offered to pay for the popcorn with the $30 in her wallet.<br><br>Write the inequality in standard form that describes this situation and then graph it. Use the given numbers and the following variables.<br><br>$x$ = the number of large popcorns<br><br>$y$ = the number of small popcorns |  |
| 9. An export company is reserving some containers to ship cargo overseas, and the expense must be under $30,000. A standard container costs $1,500 and a large container costs $2,500.<br><br>Write the inequality in standard form that describes this situation and then graph it. Use the given numbers and the following variables.<br><br>$x$ = the number of standard containers<br><br>$y$ = the number of large containers |  |
| 10. A scouting troop from Clarksville is organizing a crab feed to raise money for camp. They need to make at least $1,000 to cover the costs of the camp. Tickets for the crab dinner sell for $38 a piece. Those people who don't like crab can purchase the vegetarian dinner ticket for $23 each.<br><br>Write the inequality in standard form that describes this situation and then graph it. Use the given numbers and the following variables.<br><br>$x$ = the number of crab dinners sold<br><br>$y$ = the number of alternative dinners sold |  |