READY, SET, GO! **Name** **Period** **Date**

READY

Topic: Writing linear equations in standard form and slope-intercept form.

Rewrite the given equation so that they are in slope-intercept form. $(y = mx + b)$

1. $7x - 14y = -56$
2. $-8x - 2y = 6$
3. $15x + 9y = 45$

Rewrite the given equations so that they are in standard form.
(Ax + By = C, where A, B, and C are whole numbers and A is positive.)

4. $y = 7x - 3$
5. $y = 2x + 9$
6. $y = -4x - 11$
7. $y = \frac{1}{2}x + 8$
8. $y = \frac{3}{5}x - 2$
9. $y = -\frac{1}{6}x + \frac{2}{3}$

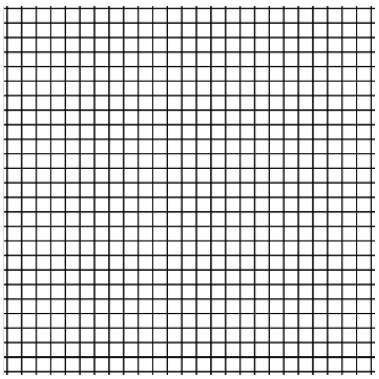
SET

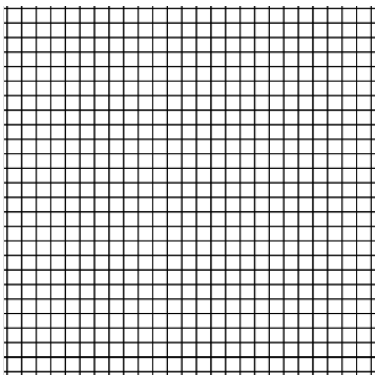
Topic: Writing inequalities from a real world problem. Graphing inequalities.

10. On a final for a creative writing course, Ben was required to write a combination of at least 10 poems or paragraphs. Ben knew that each poem would take him 30 minutes to write while a paragraph would only take 10 minutes. Ben was given two hours to complete the exam.

    a. Write an inequality to model each constraint. (Hint: One constraint is time and the other is the number of needed items. Let x be the number of poems written and y be the number of paragraphs written.)

    b. Graph each inequality on a separate coordinate grid and shade the solution set for each.





GO

Topic: Substituting a value to check if it's a solution

Determine whether $h = 3$ is a solution to each problem.

11. $3(h-4) = -3$

12. $3h = 2(h+2) - 1$

13. $2h - 3 = h + 6$

14. $3h > -3$

15. $\frac{3}{5} \leq h \times \frac{1}{5}$

16. $\frac{3}{5} > h \times \frac{1}{6}$

Determine the value of x that makes each equation true.

17. $4x - 2 = 8$

18. $3(x+5) = 20$

19. $2x + 3 = 2x - 5$

20. $4(6x-1) = 3(8x+5) - 19$