Solving Formulas and Literal Equations: *Guided Notes*

Name_____ Class _____ Date _____

1. What will you learn (or learn to do) in this lesson?

2. Define and give two examples of a literal equation.

3. Show the build-reverse process for $5a + 9 = b$.

Solve each equation for the indicated variable.

4. $3(p - 5) = 6m$ for p

5. $\frac{x+4}{4} - y = z$ for y

6. How do you know if an equation will have restrictions on the variable?

7. What are the restrictions for *y* for the equation $x = \frac{6}{4 + y}$?

Solve each equation for the indicated variable. State any restrictions.

8. $ax + bx = c$ for b

9. $9m - qm = 7 - v$ for m

10. Find Lakeitha's foot length if her shoe size is 6.5. Write the equation you used.

11. Solve the equation for *c* using either Vivian or Chander's method. Whose method did you use?

$$a = \frac{2}{3}(c + 6)$$

12. Find the length x of a trapezoid with an area of 147 in^2, a height of 7 inches, and a base length y of 27 inches.

13. Find the length of a rectangular fence with a perimeter of 106 yards and width of 29 yards.

Lesson Check:

What new skill(s) did you learn from the lesson?

On a scale of 1-5, rate how well you understood Lesson 1-2: Solving Formulas and Literal Equations.

Scale: 1 = I need more examples; 5 = I've got it.

✓ I understand how to solve equations for a given variable.	1	2	3	4	5
✓ I understand how to identify restrictions on a variable.	1	2	3	4	5
✓ I understand how to use formulas to solve real-world problems.	1	2	3	4	5

If your rating for any of the skills/concepts was 3 or lower, indicate what you are still having trouble with.