9th Grade Math Placement Exam **Fayette County Public Schools**

Please complete the following before you begin.

Trease complete the following	g belole you begin.					
		Last Name				
(Please use your real first na	me. No nicknames.)					
High School where you will b	e attending next year					
Current Middle School						
Current Math Teacher	Current Math Course					
Parent/Guardian Name(s)						
Address		Zip Code				
Phone Number	Parent's E	mail Address				
Placement Test Rules:	tted (Follow ACT rules) ic devices					
	Good I	Luck!				
		V THIS LINE				
Algebra I:	Geometry:	Algebra II:				

Fayette County Algebra I Placement Exam

Directions: Show all work in the appropriate box and circle your final answer. Follow the directions specific for each question.

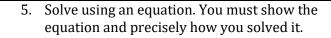
1.	Simplify:	[3-5(2-	[-7) ÷ $[4]$	$^{2} + 2(-2 - 4)$

2. Solve for x:
$$2x + 3(2x - 2) = -86$$

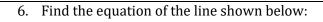
3. Solve for
$$x$$
: $-8x + 4(x - 1) = 4x - 3(2x - 4)$

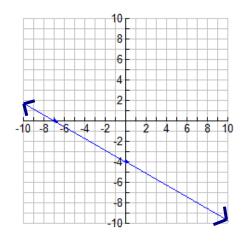
4. Solve using an equation. You must show the equation and precisely how you solved it.

Five times a number, increased by 3, is the same as three times a number increased by 27.

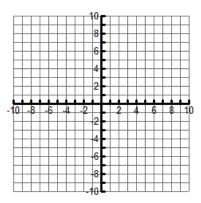


Theo has \$5 more than Denise and Denise has \$11 more than Ruby. Together they have \$45. How much money does each have?





7. Graph the line on the axes: -3x - 5y = -20



8. Find the slope of the line passing through the points (8, -3) and (-2, -7).

9. Find the equation of the line with a slope of $-\frac{4}{5}$ that passes through the point (-10, -3). Write your answer in slope-intercept form.

10. Solve the system of equations using any algebraic method. Write your solution as an ordered pair. You must show all your work. <u>Do not</u> use guess and check.

$$\begin{cases} -2x + 9y = -1 \\ -3x + 6y = -9 \end{cases}$$

11. Solve using a system of equations. You must show all your work. <u>Do not</u> use guess and check.

Your school held a bake sale and 75 pies were sold. Pecan pies were \$14.00 and chocolate pies were \$10.50. Your school collected \$903 from the sale of these pies. How many pecan pies AND how many chocolate pies were sold?

