



ALGEBRA I REVIEW

MATH LIB ACTIVITY

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Algebra Review

"Math Lib" Activity!

Description: Students generate pieces to a story as they travel through nine stations that review various algebra topics. Station topics are as follows:

Station A – Order of Operations (includes those with absolute value and square roots)

Station B – Multi-Step Equations

Station C – Multi-Step Inequalities

Station D – Evaluating Functions (Given in $f(x)$ form)

Station E – Finding Slope given two ordered pairs

Station F – Systems of Equations

Station G – Simplifying Monomials (Using product, power, and quotient rules)

Station H – Simplifying Radicals (Includes variables)

Station I – Quadratic Equations (Solving by factoring)

Directions: Each station has 9 problems. You can either print them on cards and have students choose a card at each station, or, just hang the problems up. Also, place the solutions card at each station. Students choose a problem at each station, write it down on their worksheet, then solve/simplify it. They look up the solution and write down the piece of the story beside it. I typically have them bring me the card they chose, or cross off the problem from the station so that the next group has to pick a different problem. They really like how each group gets a unique story. Note- you will be able to change Station A to names of teachers in your own building. Students love how their own teachers are the star of their Story!

Sample stations with solutions:

Station A (Order of Operations)	$ -7 - [18 + (9^2 - 5 \cdot 3) \div 2]$	
$\frac{63 - (\sqrt{100} + 2^3)}{3 + 2 \cdot 6}$	Station A – WHO?	
	15	Mrs. Wilson
$2^3 \cdot (9 - 2) + \frac{12}{4} - 1$	-44	Mr. Rebmann
	-1	Ms. Sommers
$\frac{12[30 - (9 + 4^2)]}{8 - 2^2}$	3	Mr. Hampton
	13	Ms. Bird
$\frac{(7 + 3)^2 + 14}{4^2 - 5 \cdot 2}$	19	Mr. Smith
	-31	Mr. Patterson
	54	Mr. Waters
	8	Mrs. Clark

Station D (Evaluating Functions)	Given: $f(x) = 4 - 2x^2 $ Find: $f(-3)$	
Given: $f(x) = x^2 - 8x$ Find: $f(-4)$	Station D – WEARING?	
	3	Pajamas
Given: $f(x) = 5 - 9x$ Find: $f(8)$	88	Bow-ties
	-67	Gorilla costumes
Given: $f(x) = 4x - 7$ Find: $f(-9)$	14	Swimsuits
	-20	Dress Pants
Given: $f(x) = 2x^2 + 5x - 1$ Find: $f(-1)$	48	Tu-Tus
	-10	Clown shoes
	-43	Sunglasses
	19	Top-Hats