



MULTI-STEP EQUATIONS

MATH LIB ACTIVITY

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Multi-Step Equations

"Math Lib" Activity!

Objective: To practice solving multi-step equations with variables on both sides. Equations with no solution or infinite solution also included.

Activity: There are 9 different stations with 9 problems at each station. Students choose a card to solve, then look up the answer on the solution card. The solution will give them a piece to their story. After moving through all 9 stations, they will have completed the story.

Sample of Activity: Here is what Station A cards look like along with the solution card.

16 - 2(3x + 4) = 38

8x - (2x - 3) = 9

4(x - 7) = -2(1 - 2x)

30 + 2x = -4(5x - 2)

$\frac{6}{x-1} = \frac{3}{x-5}$

$\frac{x+10}{x+1} = \frac{8}{5}$

-3(x - 4) = 9x + 68 - 4x

5 - 8(x + 5) = -8x - 35

2(6 - 6x) + x = 12 + 4x

1	Mrs. Wilson
-1	Mr. Rebmann
-5	Ms. Sommers
-7	Mr. Hampton
14	Ms. Bird
9	Mr. Smith
∅	Mr. Patterson
∞	Mr. Waters
0	Mrs. Clark

This is a word file so you can change the story elements!

Prep Work: I printed the cards out on 2x4 mailing labels so that I could just stick them onto index cards and save the time of cutting and pasting. I used different colored index cards for each of the 9 different stations. Then I placed the cards along with their corresponding solutions card at each station. My cards looked like this.



Student Worksheet: I had my students use the following sheet as they moved throughout the stations: This is included with the activity.

Multi-Step Equations Math Lib!

(A)	(B)
(C)	(D)
(E)	(F)

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Record your answers on the blanks below to complete the story!

(B) _____ with _____

eating (D) _____

(F) _____

at (H) _____

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