

Algebra 1 NTI Work:

Mrs. Byars

for each day of NTI pick one box from the choice board below to complete on a separate sheet of paper. Be sure to write your name, the date, and NTI — on each page.

Correct & Explain	Create & Solve	Real-World Connections
Solve: $-4x + 7 = 15$ $\begin{array}{r} -7 \quad -7 \\ -4x + 7 = 15 \\ -4x = 8 \\ \frac{-4x}{-4} = \frac{8}{-4} \\ x = -2 \end{array}$ What mistake was made? Explain and solve correctly.	Write 2 one-step equations and 2 two-step equations. Solve them and show all work.	You bought 3 hats and a shirt for \$45. Each shirt cost the same. Write and solve an equation to find the cost of one shirt if the hat cost \$9.
Solve: $3(x - 4) = 9$ $\begin{array}{r} 3x - 4 = 9 \\ +4 \quad +4 \\ 3x = 13 \\ \frac{3x}{3} = \frac{13}{3} \\ x = 13/3 \end{array}$ What mistake was made? Explain and solve correctly.	Write 1 multi-step equation that requires combining like terms and using the distributive property. Solve and check your answer.	You have \$20 and save \$5 each week. Write and solve an equation to find how many weeks it takes to have \$55.
Solve: $-2x > 6$ $\begin{array}{r} -2 \quad -2 \\ -2x > 6 \\ x > -3 \end{array}$ What mistake was made? Explain and solve correctly.	Create 2 inequalities one that is "greater than" and one that is "less than". Solve and graph each on a number line.	The temperature (t) drops by 4 degrees each hour. After 3 hours, it's 10°F. Write and solve an equation to find the starting temperature.
Solve: $2x + 3 = 4x - 5$ $\begin{array}{r} -3 \quad -3 \\ 2x + 3 = 4x - 5 \\ -4x -4x \\ -2x = -8 \\ \frac{-2x}{-2} = \frac{-8}{-2} \\ x = 4 \end{array}$ Identify each mistake and solve correctly.	Write a mini-lesson explaining how to solve equations (3-5 sentences). Include one example problem you made and solve it step-by-step.	Tickets cost \$12 each. You have \$60 to spend, but you also need \$8 for food. Write and solve an inequality to find how many tickets you can afford.