

Quiz/Test DATE:

Today's Section:

# Algebra I 100pt Daily Path to Success

Full Student Name:

1/2 5/6 7/8

Date:

## Opening Checklist (15 points)

Initials

1. I had my math notes folder and daily papers ON MY DESK by the time class began.
2. I had been using a SHARPENED pencil by the time class began.
3. I had FINISHED copying the objective and had STARTED defining the Word of the Day by the time class began.

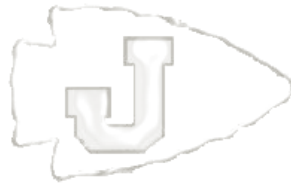
/5  
/5  
/5

## Do Now (10 points) – Copy the Objective and define the Word of the Day.

Initials

Obj:

Word of the Day & Defn:



/10

## Skill Review (10 points) – Show ALL work necessary.

Initials

/10

## Notes/Activity (20 points)

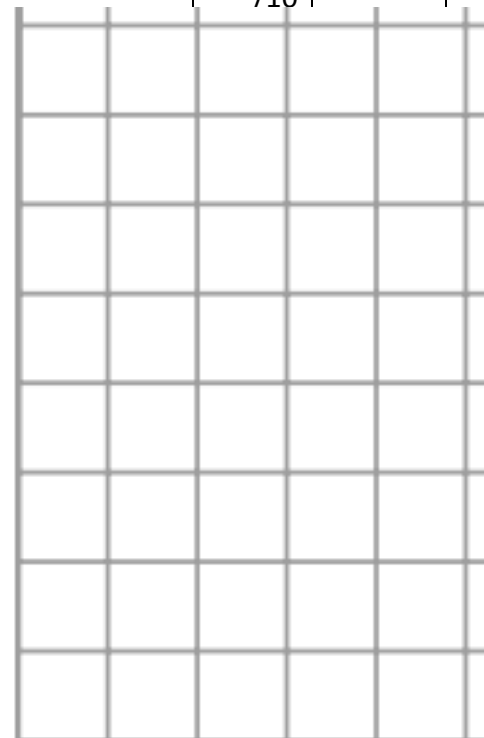
Completed Notes Page/Activity

Participated Productively & Earned the Appropriate Number of Teacher Check

## Exit Ticket (10 points) – Complete INDEPENDENTLY and SILENTLY.

X:

Y:



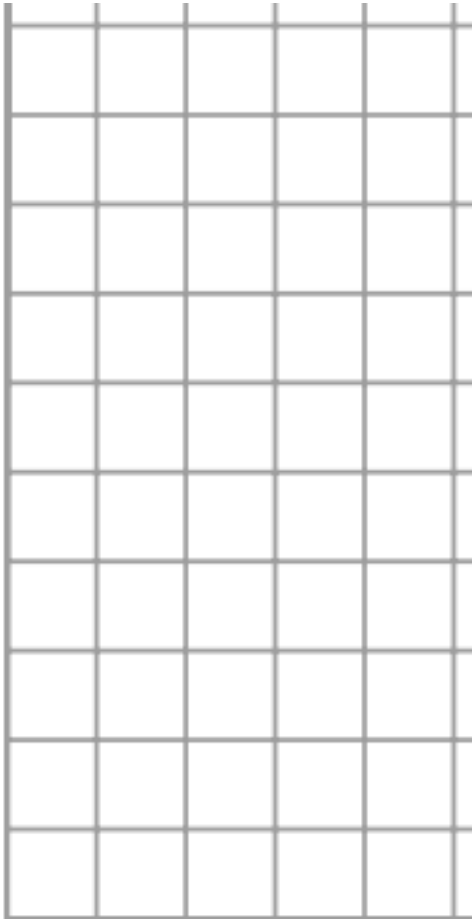
Why is a polynomial of degree 1, meaning  $x$  is the highest exponent, called “linear”?

All of the 2-step equations we have seen have a VARIABLE TERM (with the  $x$ ) and a CONSTANT TERM (#). 2-Step equations are simplified LINEAR ( $y = mx + b$ ) equations. We can represent them as tables and graphs.

1) Lisa has \$10. She earns \$2 for every chore she completes at her grandma’s house.

- a. Write an algebraic expression for the amount of money she can earn in total. Let  $x$  = chores.
- b. Make a table for the amount of money she can earn in total. Let  $x$  = chores and  $y$  = amount of money.
- c. Draw a graph for the amount of money she can earn in total based off of the number of chores she completes.

X:	Y:



d. How many chores must Lisa complete if she wants to earn \$18? Find your answer by SOLVING an equation. Confirm your answer by circling the answer on the table and on the graph.

e. How many chores must Lisa complete if she wants to earn \$40? Find your answer by SOLVING an equation. What would you see if you could find your answer on the table? What would you see on the graph?

**\*\*KEY IDEA:** A 2-step equation is really just a \_\_\_\_\_ of a linear scenario.

Exit Ticket:

2) A sturdy box weighs 1 pound with nothing inside. A shipping company packs items that weigh 2 pounds each in the box. How many items are in the box if the total weight of the box and the items inside is 7 pounds? Answer the question using an algebraic equation, a table, and a graph. Let  $x$  = items and  $y$  = total weight.