

TITLE OF LESSON

Algebra 1 Unit 1 Lesson 29 – Equality and Inequality with More Than One Variable: $X+Y=2$, $X>Y$, $X+Y>2$,
 $X+Y>W+Z$
You Do Speak Math: Creation of the Individual

TIME ESTIMATE FOR THIS LESSON

One class period

ALIGNMENT WITH STANDARDS

California – Algebra 1:

3.0 Students solve equations and inequalities involving absolute values.

MATERIALS

None

LESSON OBJECTIVES

- To continue with our discussion of equality and inequality but to broaden it to include more than one variable
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FOCUS AND MOTIVATE STUDENTS

- 1) Homework Check – Stamp/initial complete homework assignments. Pass back graded assignments and have students place them in their folders.
 - 2) [Agenda](#) – Have students copy posted agenda.
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ACTIVITIES – INDIVIDUAL AND GROUP

1. Student Demo: Inequality – Have each student demonstrate an inequality using the number line from last night’s homework.
2. Discuss: Inequality – Lead a discussion on inequality with more than one variable. What does it mean for two variables to be less than two other variables? What does it mean for two variables to be equal to two other variables? Give some examples.
3. Examples – Use money to start with. For instance, you can have 2 five-dollar bills plus 4 ten-dollar bills are equal to 1 ten-dollar bill plus 2 twenty-dollar bills. We can do many variations on this theme.
4. Equal to Unequal – Start with examples that are equal to each other and then expand to examples that are unequal to each other.
5. Number Line – Model each example using the number line.
6. [Brainstorm](#): Music Examples – Give an example from music. Choose loudness as an example. Brainstorm with the students for additional examples.
7. Number Line – Model them using the number line.
8. Student Examples – Have the students model their own examples using the number line.
9. Pair Work – Break the class into pairs. Have each student come up with an example and have the other student in the pair model the example with the number line.

10. Homework Review – Remind students their folders are due at the end of Lesson 30 for a formal grade. They should make sure they have organized their folder according to section and date. They should make sure that all notes and assignments are included in their folder. Their grade will be based on whether or not they have all assignments and whether or not their folder is organized so that you do not have to search for their assignments.
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HOMEWORK

- 1) Come up with five examples from each type of equality or inequality ($X+Y=2$, $X>Y$, $X+Y>2$, $X+Y>W+Z$) and model it with the number line.
 - 2) Organize folders according to date and section. Due Lesson 30.
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GROUP ROLES

Students will be working individually during this class period, unless a student needs help.

DOCUMENTATION FOR PORTFOLIO

None