

**MATH & MUSIC** | Lesson 8: Music Math Equations

2-6

Let's see if we can turn these notes into math equations. Utilize the worksheet with the music math equations.

*Standards listed on next page*

**Supplies: None****Objective**

Students will be able to use music symbols to create simple math equations, requiring addition and subtraction.

**Outline & Procedure *using the video***

1. Before we begin with the lesson, follow along with the video and look at the following images. What does each item have in common? Pause to discuss (00:15).
2. They are all symbols! A symbol is a picture or image that represents something else. For example, "\$" is a symbol for money!
3. Music uses symbols too. Let's review the different types of notes and rests.
4. Since the different notes receive different amounts of beats in music, we can use these symbols to make music math equations!  
For example, half notes receive two (2) beats, while whole notes receive four (4). So, if  $2 + 2 = 4$ , then (half note) + (half note) = (whole note)!
5. Try solving the next equation: whole note + dotted half note + quarter rest (2:37).
6. Now we'll add a barline after each 4 beats and clap the rhythm (3:25)
7. The next equation has the solution, but a missing component. Figure out what could fit in the blank (4:05). We can use subtraction to help solve this.
8. Solution options: half note, 2 quarter notes
9. Try clapping each of these options (5:06) and (5:35).
10. Try to solve the next equation using rests (6:30).
11. Possible solutions: dotted half rest, a half rest and quarter rest, and three quarter rests. Clap each of the examples (7:38)
12. DIY: Write your own math problem using notes and rests. After you solve it, share with your classmates and see if you can solve theirs (9:51).

**Kentucky Standards:**

KY.K.OA.2 Solve addition and subtraction word problems and add and subtract within 10 by using objects or drawings to represent the problem.

KY.1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions.

KY.2.OA.2 Fluently add and subtract within 20 using mental strategies.

**Ohio Standards:**

K.OA.2 Solve addition and subtraction problems (written or oral), and add and subtract within 10 by using objects or drawings to represent the problem.

1.OA.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

2.OA.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.