

MATH & MUSIC

Math Lesson 7: Measures and Barlines

2-6

Introduce the symbols of the time signature and bar lines. Adding the numerical value of each note, place a bar line after each four-beat segment. Once completed, clap through the rhythm of the musical excerpt.

Standards listed on next page

Supplies:

*Supplies Available, order here

Paper and writing utensil

*(optional) index cards

Objective

Using knowledge of note and rest values from lessons 5-6, practice recognizing and adding notation into groupings that fit within measures and barlines.

Outline & Procedure using the video

- 1. Try to count the number of circles in the image that flashes at (00:14). Write your answer down.
- 2. Try again, but the circles will be organized into rows and columns (00:30)
 - 3. Consider and discuss why it might have been easier to count the circles in the second example. (1:02)
 - 4. Organizing the circles into rows and columns made it easier to count because you only need time to count how many in one row (and multiply by how many rows).
- 5. Music notation is organized for easier reading too. Look at the example at (1:40) and discuss what helps organize the notation for clearer reading.
 - 6. This includes: measures, barlines and the time signature
- 7. Assuming 4/4 time signature for all examples, we will practice grouping notes into measures by adding a barline after every four beats.
 - 8. Example 1 (2:49): Follow along with Miss Liz to identify each note's value.
 - 9. Clap the rhythm once organized (4:17)
 - 10. Example 2 (4:58): Try on your own to add in the barlines after every four beats
 - 11. Solution at (5:12) and then clap the rhythm at (6:26)
- 12. DIY: see how many combinations of notes and rests you can create that add up to four beats

Optional: order index cards for your students to make note/rest value cards!



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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.