

Episode	Segment
Math Cure	Entire video
How Much is a Million?	Entire video
Lemonade For Sale	Feature book
Saturday Sancocho	Entire video
Zin! Zin! Zin! A Violin	Entire video

Setting the stage:

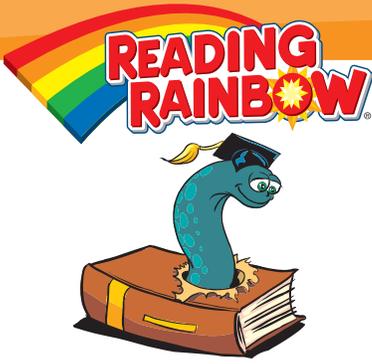
- Create a book corner with books about a variety of math themes. Ask your media specialist for assistance in gathering the collection.
- Display various math riddles on a bulletin board for students to solve. (Math riddles can be readily found in books or on the Internet.)
- At a writing center, encourage students to write their own math riddles to add to the bulletin board.
- Invite students to bring a collection from home of one hundred objects in a plastic bag. Label each bag with the student's name and its contents and display the bags on a table.

Topics for Discussion:

- Before viewing How Much Is A Million?, ask students, "How much is a million?" Discuss the variety of responses they offer.
- Discuss the concept of "estimation" and why it is useful when thinking about very large numbers.
- Ask the students, "Where have you used math today?" Make a list of their responses on the board. Continue adding to the list throughout the week.
- Identify some occupations that require a great deal of math. Discuss how and why workers in these jobs use math.
- Brainstorm a list of math vocabulary and have students arrive at definitions for them. Continue adding to the list throughout the week.

Activities to get started:

- Estimate the lengths and heights of classroom objects, i.e., tables, chairs, books, as well as students, using such measuring tools as crayons, erasers, paper clips, and pencils. Ask students to write down their estimation for each object and then actually measure the objects. Compare the estimations with the measurements.
- Invite students to write and illustrate a book, completing the sentence, "I wish I had 100 _____, but not 100 _____." on each page.
- Make a snack (sometimes called "gorp") by counting out 100 of each ingredient such as raisins, cereal, miniature marshmallows, M&M's, and pretzels. Mix together and enjoy the treat. (This is a fun activity to celebrate the one hundredth day of school!)
- Create a question relevant to a unit of study in which students can survey classmates or students in other classes. Present their findings in a bar graph, such as the one in Lemonade For Sale. In addition to the bar graph, provide experiences with other types of graphs, such as pie graphs and pictographs.



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Activities to get started, con't.:

- Hair color and eye color are good topics for a pie graph. Divide a large paper circle into the exact number of spaces needed for everyone in the class. Brainstorm the list of colors that could be represented on the graph. Cut the pie apart, giving each student one piece. Instruct the students to color their piece according to their hair or eye color. Put the pie back together, grouping the colors. Use the graph to discuss mathematical comparisons.
- Pictographs use different types of pictures to indicate preferences on a graph. Create a graph that will show students' preferences in such areas as favorite foods, books, games, musical instruments, sports, or a birthday graph. Ask each student to identify their "favorite" by placing a picture or an icon in the appropriate column. Photocopies of school pictures work well for such graphs. Depending on the topic of the graph, icons could be used that would coincide with the subject, such as crayons to graph favorite colors, balls to graph favorite sports, etc. All of these graphs provide opportunities for discussion and mathematical comparisons.
- Teach skip-counting by playing a circle game. Decide on the number by which the students will skip-count, i.e., 5, or 10. Select a specific number that will be included in the count and begin by going around the circle having the students take turns counting. Each time the designated number is counted, that person sits down. Continue counting to 100 each time. The student left standing at the end of the game wins.
- Obtain a supply of Styrofoam packing peanuts and some boxes of different shapes and sizes. Have students first estimate the number of peanuts that will fill each container and then count to determine the accuracy of their estimates.
- After viewing Saturday Sancocho, provide a variety of vegetables to be weighed. Ask grocery stores to donate vegetables too old to sell or ask parents to donate them. Have students predict the weight of individual vegetables. Record their predictions and then weigh the items. Discuss the accuracy of their predictions. Pose some questions, such as, "How many carrots will equal the weight of one ear of corn?" Ask students to suggest problems as well.
- After viewing Zin! Zin! Zin! A Violin, have students count beats in different time signatures. If enough sticks and blocks of wood are not available, tapping two pencils together or a pencil against a table will work. Have students work with partners (duets) so that one child can count and the other can tap the beats. Start with 4/4 and then work with 3/4 and 2/4. Demonstrate how two eighth notes are played in the same amount of time that one quarter note is played.