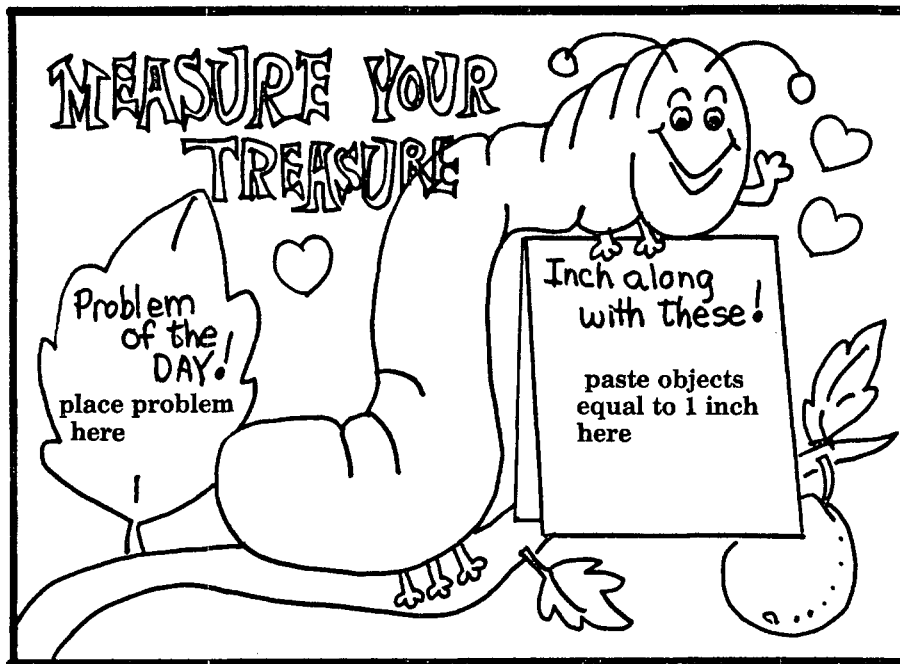


February

MEASURE YOUR TREASURE

Theme: MEASUREMENT

BULLETIN BOARD IDEA



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1. Use an enlarging method to reproduce inch worm, leaves, and branch. Color as desired. Print "INCH ALONG WITH THESE" and "PROBLEM OF THE DAY!" with black Magic Marker. Print problems on large index card to be inserted on leaf.

ACTIVITIES

1. Have the children find objects that measure 1 inch in length. Glue onto sheet on bulletin board. For instance: 4 pieces of breakfast cereal glued end-to-end, a button measuring 1 inch in diameter, a paper clip, 5 beads, etc. Instruct the children to find as many objects as they can that can be used as a unit to measure 1 inch. Children may wish to cut objects exactly 1 inch in length also.
2. "Measure Your Treasure" Worksheet: Have the children complete the worksheet and display results on the bulletin board. For variation, have them design a treasure chest and paste their worksheet inside the chest before placing on board.
3. Popcorn Problem: How many pieces of popcorn are there in a pound of popcorn? Pop some corn, weigh a pound, and estimate the number of pieces. Record in their journals. Then have the children determine the volume of the container and how many popped corns make a pound by counting each piece or determining the amount using various counting and measurement methods. Record results and place on board.

PROBLEM-SOLVING IDEAS FOR JOURNALS

February Word Problems

1. FUNNY NUMBERS. Write 1, 2, 3, 4, 5, 6, 7, 9 (omit 8) in a horizontal row in your journal. Pick out one digit and multiply it by 9. Then multiply 12,345,679 by the product of the one digit multiplied by 9. What happens to the answer? Example: A student selects 6. Multiply $6 \times 9 = 54$. Multiply $12,345,679 \times 54 = 666,666,666$. Or select $5 \times 9 = 45$, $12,345,679 \times 45 = 555,555,555$.
2. DREAMS COME TRUE. Draw a picture of your first car. How much will gas cost per gallon for your car? How much will it cost to fill up your tank? **Answers: vary.**
3. FANTASY CAREER. You are a 3-digit multiplication doctor. You have to perform an operation. Illustrate your operation.
4. HOUSEHOLD SURVEY. Take a survey of all the pairs of shoes in your household. Use a graph to illustrate your results.
5. HOW TIME FLIES. Draw a time line of your life. On it, show the year you were born, the year you entered school, the year you lost your first tooth, and the years you learned to ride a bicycle. Add more of your own special dates and predict your future. Create three addition or subtraction problems using your time line.
6. VERY LARGE NUMBERS. Find five of the largest numbers you can in the newspaper. Cut them out and paste them in your journal from smallest to largest. Write each number in expanded form. Using the

largest and smallest number find the difference, the sum, the product, and the quotient.

7. LINCOLN'S LOG CABIN. Make a floor plan drawing of the inside of Lincoln's log cabin. Draw what you think he might have had in his cabin. Give the measurements of the cabin. Find the height, length, width, area, and volume of the cabin using your measurements.
8. TEMPERATURES. Think about a city on a new planet. Decide what type of climate this city would have for a year. Decide on seasonal changes and temperature ranges. Plot the highest temperature recorded for each month of the year for this city. Graph the temperatures and write a report on your findings.
9. MEASURE THE HEART. Design a very large valentine for your parents or favorite person. Make up a poem about how high, how wide, how big, and how deep your love is for that person.
10. MEASURING DISTANCE. Plan a trip from your home to your favorite amusement park in Florida. Find out how long a trip it is in miles. If you decide to take three days to get there, how many miles will you travel each day? Then if you decide to stay there for three days and then return home again, how many miles will you travel all together? How many days will you be out of school? **Answer: 9 days, mileage will vary.**
11. WASHINGTON LUNCHEON. Make up a fast food lunch menu for a luncheon to be held for your class on Washington's Birthday. Tell how much each item on the menu will cost. Then take the class to lunch. How much will it cost for each student in your class to have lunch?
12. MEASURING MONEY. How long is a row of 12 pennies placed end-to-end in a straight line? Also measure a row each of 15 dimes and 8 quarters. **Answers: 12 pennies = 9 inches; 15 dimes = $10\frac{5}{16}$ inches; 8 quarters = $7\frac{1}{2}$ inches**
13. HOW LONG IS YOUR CLASS? How long is your class if you each stood side-by-side holding hands in a straight line? Use standard and metric measurement.
14. MEASUREMENT STUDIES. Make a list of all the types of measurements you know. Give an example of each kind in your journal. Examples: dozens, ounces, years, minutes, foot, centimeter, Fahrenheit, degrees, cups, teaspoons, etc.
15. DANDY CANDY. Design a new kind of valentine candy bar. Show how you would divide it up into equal parts for five of your friends.
16. BECOMING A PRESIDENT. Pretend that you were just elected president of a new country. Name your country and design its shape in your journal. Include three cities somewhere in your country and name them. Determine where you will place these cities so that the mileage between them will add up to 1,350 miles. Connect the three cities with a line.

17. **GEOMETRY MEDITATION.** What shapes would exist in the world if there were no circles, quadrilaterals (squares), or triangles? Draw them in your journal. **Answers: Figures with five sides or more, and any closed curve figures that are not circles**
18. **TEACHER FEATURE.** You opened your math book one day and saw pictures of your teacher on two facing pages. The sum of the page numbers is 91. What are the two page numbers? **Answer: 45 and 46**
19. **DAILY SCHEDULING.** Which class comes first if you have language arts after spelling, and lunch before mathematics, and reading before social studies, science after spelling and language arts and spelling after social studies? **Answer: Reading**
20. **OLD-FASHIONED MEASUREMENT PROBLEM.** In 1900 some liquids were measured using a hogshead measurement. 1 hogshead is equal to 63 gallons or 252 quarts. If 2 pints make a quart, how many pints are there in 2 hogsheads? Illustrate this problem. **Answer: $2 \times 252 = 504$; $504 \times 2 = 1,008$ pints.**

CALCULATOR PROBLEMS FOR JOURNALS

21. Enter 3 digits in your calculator. The second digit is 9. What does 9 mean? The first digit is 0. What does 0 mean? The last digit is 6. What does 6 mean? What is the number you entered? **Answer: 96**
22. Enter 7 digits into your calculator. What is the largest number you can enter? What is the smallest number? **Answers: 9,999,999; 0,000,001**
23. Use your calculator to add up the number of tiles in the ceiling of your classroom.
24. Use your calculator to count the number of students that come and go in and out of the lunchroom for 10 minutes during your lunchtime.
25. Use your calculator to help the office secretary figure out how many children were absent from your school for one week.

MEASUREMENT GAME

Make a time line. Place adding machine tape all around the classroom at about eye level of the children. Use a yard or meter stick and a black Magic Marker to measure off sets of 100 years on the tape. Make a black line for each set of 100 years. Number the years beginning with the year 2000 and go back in time to as far back as the children decide. They may wish to go back to B.C. time. Then have the children identify important dates and approximate their position on the time line between the marked decades. For example, in 1492 Columbus discovered America. Place a red dot and/or picture of the *Santa Maria* with the date labeled on it in the approximate place on the time line between 1400 and 1500. Naturally, the label would be placed closer to 1500.

Use an encyclopedia to find the dates of important historical events and birthdates of famous persons. Ask the children to identify important dates and to research them. Challenge them by asking them to find something important that happened and a person important to each period on the number line. A variation to the red dot would be to draw a small picture representing the event and print the date on it.

Examples of important dates are:

Children's birthdays, Parents' birthdays, Grandparents' birthdays,

Presidents' birthdays, Famous Black Americans' birthdays,

George Washington's birthday—1732

Abraham Lincoln's birthday—1809

Franklin Delano Roosevelt's birthday—1882

Alexander The Great—356 BC

Henry VIII, King of England—1491–1547

St. Valentine—3rd Century

Events in America: Revolutionary War, Declaration of Independence

Famous Wars: 1000 years war, World War I and II, Vietnam War years

Name _____ Date _____



MEASURE YOUR TREASURE



List seven of your favorite things in your bedroom. Measure how long each item is in inches, feet, and yards.

Measure how long it took you to measure the items.

ITEM	MEASUREMENTS
1.	
2.	
3.	
4.	
5.	
6.	
7.	

It took _____ hours _____ minutes _____ seconds.

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Make a birdseye view of your bedroom.
Write its dimensions. What is its perimeter and area?