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# Check Out These Books!

Visit the Louisville Free Public Library to check out these books which connect to math content students are learning this month.

* *Measurement* by Penny Dowdy
* *Measuring* by Marcia Gresko
* *Measure by Measure* by Marilyn Deen
* *How Tall, How Short, How Far Away* by David Adler
* *How Long or How Wide: A Measuring Guide* by Brian P. Cleary
* *Length* by Henry Arthur Pluckrose
* *Twelve Snails to One Lizard: A Tale of Mischief and Measurement* by Susan Hightower
* *Measuring with Sebastian and Friends: On A Road Trip* by Jill Anderson

# Show What You Know!

1) A snake measures 25 inches and a frog measures 5 inches. How much longer is the snake than the frog?

2) During second grade, Ben grew 4 inches. Now Ben is in third grade and is 46 inches tall. How tall was Ben when he started second grade?

3) Justin measures his pencil as 7 inches. He then measures it again as 12 centimeters. Why were the measurements different?

Answers

1) 20 inches longer 2) 42 inches tall 3) Inches are bigger so less are needed to measure the length of a pencil. Centimeters are smaller so more are needed to measure the pencil.

# During these eight weeks, second graders are learning to:

* **Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tape.**
* **Measure the length of an object twice using different length units and explain why the measurement of the same object taken with two different units is different.** Second graders will be measuring objects using two different units such as inches and centimeters. They are learning to explain the difference by looking at the size of the unit and seeing that because the inch unit is bigger it will take less to measure the length of an object and that because the centimeter unit is smaller you will need more of them to measure the length of an object.
* **Estimate lengths using units of inches, feet, centimeters, and meters.** For example, about how many inches long is a pencil? About how many centimeters long is your eraser?
* **Determine how much longer one object is than another.** For example, if a crayon measures 5 cm and a pencil measures 15 centimeters, how much longer is the pencil than the crayon?
* **Solve word problems involving lengths that have equations with an unknown number.** For example, “During week 1, a plant measured 6 inches. During the next three weeks, it grew. During week 4, the plant measured 12 inches. How many inches did it grow? The equation to represent this problem could be 6 + ? = 12.
* **Solve word problems using dollars, quarters, nickels, dimes, and pennies using symbols correctly.** For example, I have forty-five pennies. My mom gave me twenty-three more pennies. I need 100 pennies for a new notebook. How many more pennies do I need?

Math Ideas and Resources for Families

Math Matters

banner with apples and crayons

### Second Grade

Cycle 4

Volume 3, Issue 4

* <http://www.funbrain.com/measure/> Practice measuring with this game. Pick easy inches or easy centimeters.
* <http://mrnussbaum.com/grade_2_standardslinecompare/> Practice comparing line length with this activity.
* <http://www.pbs.org/parents/education/math/games/first-second-grade/time-to-move/> Practice measuring fish with this fishing game.
* <http://henryanker.com/Math/Measurement/Measurement_Set_A.swf> Measure objects with this fun activity.

**MONEY**

# Check Out These Books!

Visit the Louisville Free Public Library to check out these books which connect to math content students are learning this month.

* *The Penny Pot* by Stuart J. Murphy
* *I Can Add Bills and Coins* by Rebecca

Wingard-Nelson

* *Alexander Who Used to Be Rich Last Sunday,* by Judith Viorst
* *A Dollar for Penny* byJulie Glass

# Show What You Know!

* Billy has a total of 78¢ in his piggy bank. All of the coins in his piggy bank are either pennies or dimes. How many of each coin might Billy have in his piggy bank? Is only one answer possible? How do you know?
* **RACE FOR $1.00**

You need 30 pennies, 10 nickels, 20 dimes, 1 quarter, a dollar, 2 dice and a partner. Roll the dice. The sum tells how many pennies to take. When you have 5 pennies, trade for a nickel. When you have 2 nickels, trade for a dime. When you have 2 dimes and one nickel, trade for a quarter. The first player to reach $1.00 is the winner.

# Online Activities to Try

* Practice measuring objects around the house with your child. Measure to the nearest inch and then measure again using centimeters. Talk with your child about what he notices about the two different measurements.
* Make estimating objects into a game by guessing how long an object in your house is in inches. Each player makes an estimate and takes turns measuring the objects. For every inch the player is off from the actual length, he gets one point. The person with the lowest score at the end is the winner. Once your child is able to estimate inches, switch to another measurement such as centimeters, feet, and meters.
* Measure and compare objects in your home. For example, compare the shoe of an adult and a child and ask your child, “How many inches greater is the adult’s shoe than the child’s shoe? How do you know?”
* Continue to practice addition and subtraction facts with your child. It is very important that he or she can quickly and correctly recall basic math facts.
* Use advertisements from the newspaper to help your child practice solving word problems with money. For example, ask your child, “If you buy the video game and the tape deck, how much money will you spend?” Repeat with several different items or allow your child to pick the items to buy and ask him to find the cost. To practice two-step problems, ask your child to figure out how much change he would get back if he pays with $100 (or another amount depending on how much the child selects).

# Activities to Try at Home

Math Ideas and Resources for Families