

**Arickaree School Parent/Student Resources
For Homework Assistance
Fourth Grade**

The following websites can be used as an additional resource for you and your child throughout the school year. Preschool links encompass all subject matter. The Kindergarten through 5th grade are divided by subject and unit where possible. If you have additional questions, please contact your child's teacher. Please submit any and all bad links to leeh@arickaree.org.

Fourth Grade

www.carolhurst.com (Children's Literature Site)

www.childrenstory.com (Mary Cavanaugh's)

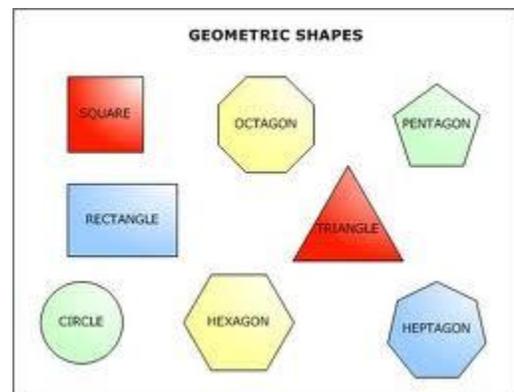


Fourth Grade Math

For each unit are links to websites that support math instruction for the major ideas of the unit. The websites vary in difficulty, and many permit the teacher and/or parent to select a level. After being introduced to the sites, students should be able to work independently or in pairs on each activity unless the annotation states differently. Please click the UNDERLINED link in the left column to be taken to the webpage described in the right hand column.

Geometric Figures

Sort the Polygons	Sort the figures into polygons and not polygons
Polygon Features	Drill on polygon shapes, sides, etc.
Polygon Sides	Name the polygons based on sides; drill
Pete's Polygons	Interactive lesson on polygons
Quadrilateral Sort	Sort shapes by attributes
Lesson on Quads	Lesson on identifying quadrilaterals
Shapes Quiz	Identify the shapes by attributes
Flashcard/Vocab Match	Match the pictures with the geometry terms
Naming Angles	Name angles on a short quiz
Measuring Angles	Use a virtual protractor to measure the angles; 6th grade
Protractor Lesson	Try to use the protractor; use the buttons to check your work
Triangles Side by Side	Lesson on triangles and architecture
Angle	Guess a random angle; protractor available
Anglemania	Learn about angles and vocabulary
Angle Estimator	Try to choose the angle that matches the given angle
Identify the Angles	Sort the angles by name
Right Back at You	Fill orders for boomerangs -- angles
Sort Triangles	Sort the triangles by type

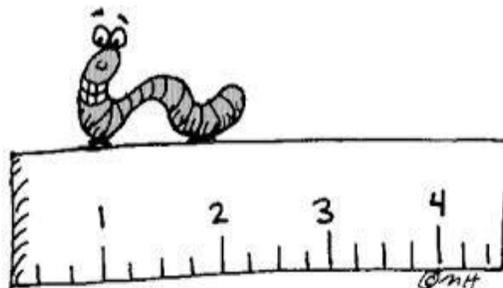


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<u>Flashcard Drill</u>	Choose addition or subtraction to drill on primary facts
<u>Math Barge</u>	Load the correct cargo on the barge; many options for difficulty
<u>Math Magician</u>	Choose addition and subtraction, level 2, for 5-minute practice
<u>Football Math</u>	Choose a team, play against a partner or the computer; math fact drill

Using Numbers & Organizing Data

<u>Bar Graphs</u>	Create bar graphs with given data or own data
<u>Create a Graph</u>	Free graphing application; must use own data
<u>Data Picking</u>	Practice in collecting data and graphing it
<u>Mean, Median, & Mode</u>	Lesson with follow-up quiz
<u>Modeling Mean & Mode</u>	E-Lab models mean and mode from student's numbers
<u>Train Race</u>	Identify mean, median, and mode
<u>Jupiter is Average</u>	Learn the meanings of average and apply the new knowledge to the solar system
<u>Data Practice</u>	Multiple exercises on mean, median, mode, and range
<u>Graphing Changes</u>	Reset minimums and maximums to see their effects
<u>One False Move</u>	Order numbers from smallest to largest or vice versa
<u>Baseball Math for One</u>	Choose addition or subtraction, medium to super hard for drill
<u>Hangman Rounding</u>	Round to the nearest thousand & add or subtract
<u>Adding Double & Triple Digits</u>	Choose double or triple digits for addition drill
<u>Seashell Rounding</u>	Round to the nearest ten
<u>Place Value to 100,000</u>	E-lab activity identifying place value
<u>Place Value</u>	Identify place value to hundred thousands
<u>Place Value 6 Digits</u>	Second drill on identifying to six digits
<u>Standard/Word Form Place Value</u>	Match numbers to their written form
<u>Cookie Dough</u>	Write numbers when given digits and vice versa



Operations & Algebra

<u>Catapult</u>	Solve the equation correctly to keep the rabbit safe
<u>Operation Order</u>	Place numbers in equation in correct order to solve for given number
<u>Order of Operations Matching</u>	Match the number sentences with their solutions

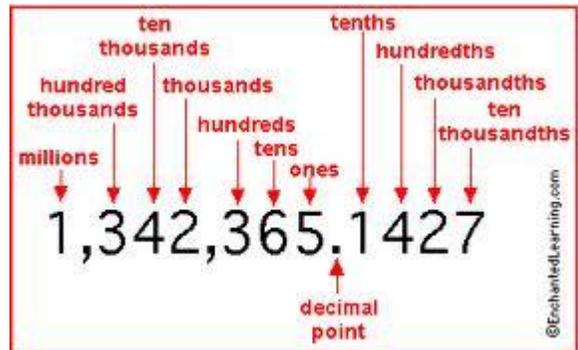
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<u>Open Sentence Practice</u>	Solve simple algebraic expressions by choosing the correct number to complete the equation.
<u>Find the Missing Variable</u>	Solve algebraic expressions by typing the correct number to complete the sentence
<u>Rescue the Dog</u>	Fact practice against the clock; choose extreme for practice with parentheses
<u>Power Football</u>	Solve for the missing number in an algorithm; choose medium level
<u>Odd Man Out</u>	Which problem doesn't belong?
<u>Abiator's Problems</u>	Word problems to practice
<u>Build a Bug</u>	Solve problems to build a bug
<u>Number Cruncher Challenge</u>	Fact Practice --use expert or genius level
<u>Arithmetic Four</u>	Choose level and type of problem for fast-paced drill
<u>Pinpoint That Number</u>	Estimate the placement of a number on a number line
<u>Mystery Picture Division</u>	Match the division problem with the quotient to uncover a picture
<u>Division Machine</u>	Try to get 100 right with no errors; several levels
<u>Mathcar Tic Tac Toe</u>	Fact practice in a game
<u>Math Mayhem</u>	Fact practice against the clock
<u>x÷ Machine</u>	Function Machine for multiplication and division facts
<u>Multiplication Model</u>	Models multiplication with arrays
<u>Tunnel Blaster</u>	Solve multiplication problems to blast through the tunnel
<u>Times Tables</u>	Two choices; drills on multiplication facts
<u>Speed Drill</u>	Timed drill on one multiplier at a time

Your favorite aunt is flying to your house next month. She's coming from San Francisco to Buffalo. It's a 5 hour flight and she lives 3060 miles away from you. How fast does the plane go?

Decimals

<u>Conversion Chart</u>	Need teacher input; perhaps worksheet of numbers to convert
<u>Beat the Clock</u>	Type in the decimal for the colored squares; several levels
<u>Decimal Place Value</u>	Identify the place value to the ten thousandths
<u>Interactive Thousandths, Decimals</u>	Individualize the problems by place value; good use of blocks to demonstrate
<u>Decimal Place Value</u>	Play against a friend or the computer to make the largest decimal
<u>Decimals Activity</u>	Place decimals on a line from smallest to largest; context clues
<u>Washing Line</u>	Hang decimal shirts in numeric order; level three is decimals
<u>Make a Line</u>	Make a line to given length; ruler moves up to line; requires accuracy
<u>The Ruler Game</u>	Choose the increments for practicing with a ruler

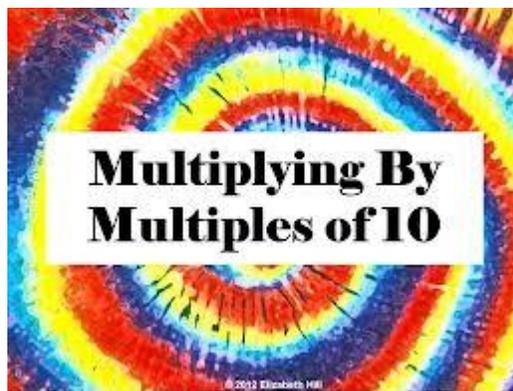


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<u>Measure It!</u>	Choose inches or centimeters for practice in measurement
<u>Tug-o-War</u>	Play against a friend or a robot to use subtract decimals and win a tug-o-war
<u>Decimal Subtraction</u>	Subtraction problems with decimals; correct answers score baskets
<u>Decimal Addition</u>	Addition problems with decimals; correct answers score baskets
<u>Measure It!</u>	Measure in metric or standard; several levels
<u>Adding Money</u>	Drill on adding money amounts; correct notation required

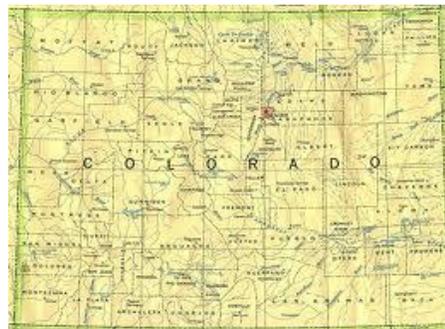
Estimation & Computation

<u>Scientific Notation</u>	Lesson 1 is explanation, lesson 2, practice
<u>Scientific Notation2</u>	Explanation; press "let me try" button for practice
<u>Converting Decimals to Scientific Notation</u>	Drill on converting decimals to scientific notation
<u>Multiplication Explained</u>	A video explains various ways to multiply, then asks the student to estimate, multiply and verify
<u>Step-by-Step Multiplication</u>	Multiply a 2-digit number with a 1-digit number with support
<u>NumberNut Multiplication</u>	Multiplication of 1 and 2-digit numbers with no carrying
<u>The Number Monster</u>	Choose operation and difficulty level; hard and harder use negative numbers
<u>Multiplying Tens</u>	Drill on multiplying by 10s
<u>Multiplication Sense</u>	Explanation of multiple ways to multiply -- interactive
<u>Rounding Off</u>	Round numbers to specific place values
<u>Big Numbers</u>	Many exercises on place value
<u>Number Jeopardy</u>	Practice rounding and decimals 1 or 2-player game
<u>Digit Switch</u>	Switch numbers until they are in order of magnitude
<u>Shop 'Til You Drop</u>	Buy without overspending
<u>Buying a Pet</u>	Estimate the prices to find a pet you can afford
<u>Estimation Golf</u>	Estimate the sums; ten seconds to type answer
<u>Estimator Four</u>	Choose Addition to practice estimating sums



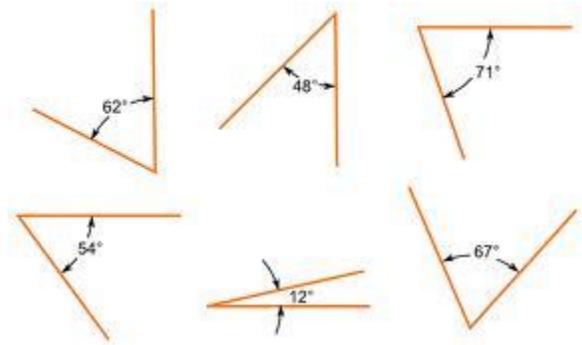
Division, Maps, & Angles

<u>What's Your Longitude?</u>	Challenging activity; Latitude & descriptors given; name the longitude
<u>Division Machine</u>	Solve division problems; three levels
<u>Sum Sense - Division</u>	Use the given numbers to make a division



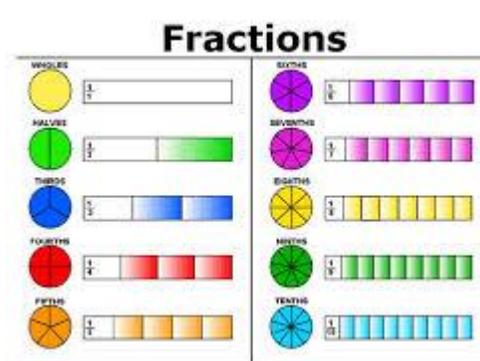
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	sentence
<u>Mad Math Minute</u>	Set the parameters for a minute's worth of division problems
<u>Division w/Remainders</u>	E-Lab model of division problems with remainders
<u>Number Train</u>	Divide the passengers into the cars; three levels, usually a remainder
<u>Modeling Division</u>	E-Lab of division; student writes numbers, program divides with blocks
<u>Lesson on Grids</u>	Lesson and activities on coordinate pairs.
<u>Lunar Adventure</u>	Plot coordinates and capture fragments in space; gamey
<u>What's the Point?</u>	Choose the coordinates for the point; three levels
<u>Quark Game</u>	Version of Battleship played against the computer or a friend
<u>Billy Bug</u>	Move Billy Bug to the food through coordinate points
<u>Anglemania</u>	Learn about angles and vocabulary
<u>Angle Estimator</u>	Try to choose the angle that matches the given angle
<u>Right Back at You</u>	Fill orders for boomerangs -- angles
<u>Star Gazing</u>	Identify the angle of a telescope to see the planets, increases in difficulty
<u>Code Cracker</u>	Scramble a code; answer math problems to unscramble the code
<u>Multiplication/Division Machine</u>	Solve multiplication and division problems



Fractions & Probability

<u>Fraction Game</u>	Combine fractions to total the card value in as few cards as possible
<u>Soccer Shootout</u>	Choose easy addition; add fractions with like denominators
<u>Fraction Addition</u>	Lesson on adding fractions followed by self-correcting quiz
<u>Fraction Subtraction</u>	Lesson on subtracting fractions followed by self-correcting quiz
<u>Fractions & Decimals</u>	Match fractions and decimals in concentration game
<u>Death to Decimals</u>	Use the space bar to shoot calculators at the decimal equivalents of fractions
<u>Fish Tank</u>	Probability; chance of catching a red fish
<u>Fraction Applet</u>	Activate the applet to compare fractions; needs teacher planning such as worksheet
<u>Find Grammy</u>	Grammy hides well; given the denominator, must guess the numerator
<u>Fraction Switch</u>	Switch the four fractions to put them in order by magnitude



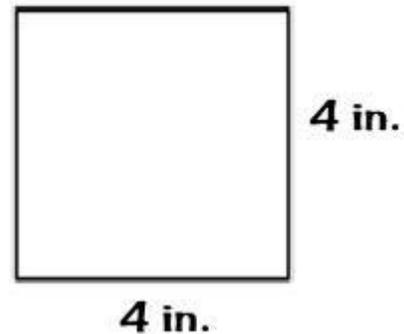
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<u>Fraction Hi-Lo</u>	Guess a fraction between 0 and 1; tells you if guess is too high or low
<u>Mixed Numbers & Fractions</u>	Change the mixed numbers to their fraction equivalents
<u>Rename in Lowest Terms</u>	Name the fraction on a number line; reduce to lowest terms
<u>Fraction Frenzy</u>	Match equivalent fractions; timed
<u>Fraction Concentration</u>	1- or 2-person game; try to match equivalent fractions in memory game
<u>Fresh Baked Fractions</u>	Compare four fractions; choose the one not equivalent
<u>Flowering Fractions</u>	Attach the petals to the flowers to make a whole; three levels
<u>Fractions to Decimals</u>	Five-question multiple choice quiz on converting mixed fractions to decimals
<u>Fractional Sets of Numbers</u>	Match the fraction with the number of objects
<u>Shading In</u>	Shade in the fractional pieces of a whole
<u>City Planner</u>	Plan the city by filling each district with fractional pieces



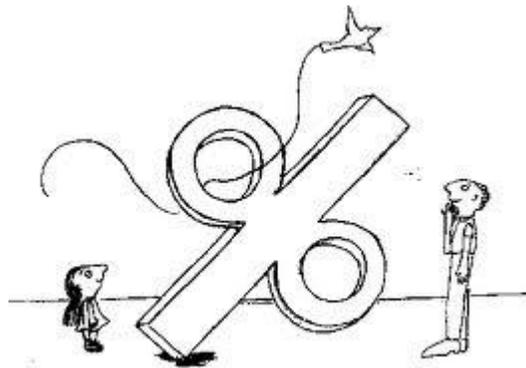
Perimeter & Area

<u>Map Scale</u>	Explanations of using scale and exercise practicing using scales on maps
<u>Bird's Eye View</u>	Use geometry to find buildings on a map
<u>Area of Triangles</u>	Calculate areas of triangles with formulas; drill
<u>Rectangle Area</u>	Compute the area; multiple choice
<u>Area of Parallelograms</u>	Drill on figuring the area of parallelograms
<u>Perimeter Explorer</u>	Find the perimeter of shapes
<u>Fence the Dog</u>	Lesson on perimeter with problems to solve
<u>Area Explorer</u>	Change the perimeter setting to make irregular shapes within a grid



Percent's

<u>Rounding Decimals</u>	Lesson with sports problems on estimating with decimals
<u>Percent Estimation</u>	What percent of the bar is shaded?
<u>Clara's Ice Cream Shop</u>	Read the orders and fill them; fractions and mixed numbers
<u>Decimal Challenge</u>	Estimate the location of a spot on a number line; challenging
<u>Penguin Waiter</u>	Calculate the percentage of a restaurant bill as a tip
<u>Fraction Decimal Converter</u>	Activities on finding the decimal and fraction equivalents



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Saloon Snap Find equivalent fractions, percent's, and decimals;
timed

Reflections & Symmetry

Signed Numbers Lesson and practice on using signed numbers

Line Jumper Use the number line to practice adding positive and negative numbers

Wrapping Paper Lesson on slides, rotations, and flips

Bathroom Tiles Practice rotation, translation & reflection

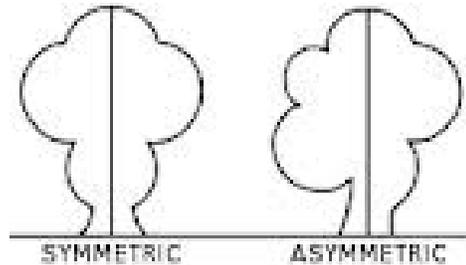
Build a Mandala Use the tool to build your own mandala (symmetry)

World Symmetry Interesting website for exploring with many examples of symmetry; no activities

Symmetry Video Video explanation of symmetry with interaction

Make a Symmetrical Figure Choose the type of symmetry & make a figure; good for exploration; teacher involvement

Make a Snowflake Work with rotation or reflection to make a snowflake; can print



3-D Shapes & Measurement

Volume E-Lab E-Lab constructs a prism; calculate the volume

Color Chips Subtraction Subtract positive & negative numbers with the help of this interactive tool

Number Line Integers Choose two numbers and the operation; applet demonstrates the answer; teacher involvement

Line Jumper Use the number line to practice adding positive and negative numbers

Signed Numbers Lesson and practice on using signed numbers

Space Coupe to the Rescue Use positive & negative numbers to shoot the pods

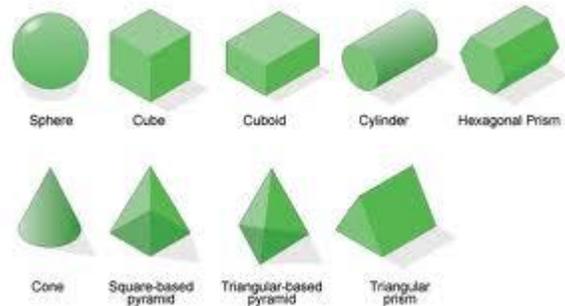
Platform Scale Weigh Greg in metric units on a doctor's scale

Animal Weigh-In Balance the scales in metric

Balance the Scale E-Lab Activity on measuring in metric

Factory Choose the nets that match the solid figures

Solid Geometry Lesson and activities on attributes of solid figures



Rates

Farm Stand Calculate prices when given unit price and quantity

BrainPop- Comparing Prices Movie about comparing prices

Grocery Store Blues Solve problems for irate customers concerning unit prices

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Rates Lesson Lesson on rates and ratios with practice quiz
Calculators Calculators to determine MPG, loan payments, etc

Challenge

The Picking Game Each number must be a multiple or factor of the previous number
Factor Quiz Which number is NOT a factor of the given number? Multiple choice
One to Ten Using four numbers, make number sentences that equal every number between 1 & 10



Teacher Resources

Online Quiz Register to create a quiz or test; upload current tests & quizzes; students use code to access; gives feedback and grades student work
Curricular Links Web's best collection of curricular links organized by skills and grade levels