

Pine View School Fourth Grade Math Beginning of Year Benchmarks

Topic	Minimum Skill Level	Recommended Skill Level	Websites for Help
Numeric Operations	<input type="checkbox"/> Fluency in addition, subtraction, multiplication and division facts through 9s. (100 problems in 3 minutes.)	<input type="checkbox"/> Add and subtract multi-digit numbers. <input type="checkbox"/> Two-digit by two-digit multiplying.	www.superteacherworksheets.com – Create basic addition, subtraction, multiplication and division practice worksheets. http://www.softschools.com/math/worksheets/ - Create worksheets to practice facts in all four operations. http://themathworksheetsite.com/ - Choose 5 Minute Drill to create practice tests for any operation.
Number Sense	<input type="checkbox"/> Read and identify numbers from the millions place to the thousandths place.	<input type="checkbox"/> Identify value of digits in numbers from millions to hundredths.	http://www.softschools.com/math/worksheets/placevalue_worksheets.jsp - Identifying value of digits in numbers http://www.math-play.com/place-value-games.html - Play the Place Value Game and Decimal Place Value Game for fun practice.
Fractions	<input type="checkbox"/> Identify benchmark fractions (halves, quarters and thirds) graphically and written. <input type="checkbox"/> Recognize equivalent fractions.	<input type="checkbox"/> Identify decimal and percent equivalent of benchmark fractions. <input type="checkbox"/> Convert fractions to simplest terms.	http://www.visualfractions.com/ - Use graphics to Identify, Rename and Compare fractions. Find Grampy Strict game too! http://www.crickweb.co.uk/ks2numeracy-tools.html#Toolkit%20index2a – Fraction calculator lets students see visualization of fractions, compare and find equivalents http://themathworksheetsite.com/reduce_fractions.html - Create worksheets to practice reducing fractions to simplest terms.
Measurement	<input type="checkbox"/> Familiarity with basic units of measurement <input type="checkbox"/> Use a ruler to measure lines to the nearest $\frac{1}{2}$ inch and centimeter	<input type="checkbox"/> Convert measurements within one system (hours to minutes, feet to inches, etc.) <input type="checkbox"/> Use a protractor to measure angles to the nearest degree	http://commoncoresheets.com/Measurement.php - 4th grade skills include measuring with a metric ruler, conversion tables (customizable) and estimating measurements and determining best units of measure. http://www.crickweb.co.uk/ks2numeracy-tools.html#Toolkit%20index2a – Use Angle tool to practice using a protractor and estimate angles.
Geometry	<input type="checkbox"/> Identify and name basic geometric and solid figures (square, rectangle, triangle, sphere, cylinder, cone, rectangular prism)	<input type="checkbox"/> Solve for area and perimeter of rectangles using real world examples.	http://www.primaryresources.co.uk/online/longshape3d.html - Practice identifying 3-D shapes in a futuristic landscape