


Fractional Reasoning Assessment

End of Grade 4

Report for Sample Student

Understanding fractions is both important and challenging. The ability to reason with fractions has been shown to be predictive of middle school and high school math performance. For these reasons, we recently completed a Fractional Reasoning Assessment with all 4th grade students.

Below are the results of this assessment for your child.

Reading and Writing Fractions Example: "Write the number three and two thirds."	Proficient
Fractions of Geometric Shapes Example: "The rectangle shown is one whole. Draw another rectangle that is $\frac{2}{3}$ the size of the whole rectangle." <div data-bbox="906 674 1130 753" style="display: inline-block; width: 138px; height: 38px; background-color: #d9e1f2; border: 1px solid black; margin-left: 10px;"></div>	Proficient
Fractions on Number Lines Example: "Place the number $\frac{2}{3}$ where it belongs on the number line." <div data-bbox="472 926 850 968" style="display: inline-block; text-align: center;">  </div>	Proficient
Fractions of Sets Example: "There are 9 candies in one package. How many candies are in $\frac{2}{3}$ of a package?"	Proficient
Comparing and Fraction Equivalence Example: Compare these fractions: $\frac{2}{3}$ $\frac{2}{4}$	Approaching
Reasoning with Fractions to Solve Problems Example: "I have a string that is 1 ft. long. I cut off $\frac{1}{3}$ ft. How much is left?"	Developing

Support your student at home.

- Look for fractions in daily life and talk about what they mean. Look for them in recipes, on highways, in supermarkets, on the news etc.
- Follow recipes and think about different values. For example, "This recipe calls for $\frac{2}{3}$ stick of butter. How much butter do we need if we double the recipe?"

Explore these websites:

PhET - Fractions Intro: <https://tinyurl.com/phetfractionintro>

PhET - Fractions: Equality: <https://tinyurl.com/phetfractionequality>

[Want to learn more about screening assessments?](#)