

Common Core Fractions in Bridges, Grades 3–5 **Grade Three Instructional Focus:** • Represent halves, thirds, fourths, tenths as equal parts of a whole, parts of a set, and on the number line. Compare and order fractions by reasoning about their size • Recognize and generate simple equivalent fractions & explain why the

Resources in Bridges:

Bridges: Unit 6

Number Corner: Dec-Feb Magnetic Board, Apr & May Calendar Grid

Supplement Sets: A5

Practice Book pages: 8, 10, 30, 103, 105, 108–110, 112, 114–117, 125, 128

Resources in Bridges:

Instructional Focus:

Bridges: Unit 3, Unit 6

Fourth Graders

Paper Fraction Strips

a Labeled Sketch

to hundredths

Number Corner: Sept-Dec, Mar, Apr Cal Collector, Mar-May Number Line

We think that $\frac{2}{3}$ and $\frac{4}{6}$ and $\frac{8}{12}$ are all good names for 8 eggs

When Sam gets up on school days, it takes him $\frac{2}{4}$ of an hour to take a

ower and get dressed, $\frac{1}{4}$ to eat breakfast, and $\frac{1}{2}$ of an hour to finish his home

Egg Carton Fractions

ork. How long does it take Sam to get ready for school?

ordering fractions; compare fractions with unlike denominators

Supplement Sets: A6, A9, A10

Practice Book pages: 41-44, 46, 47, 57, 59, 67, 101-103, 105, 107, 109, 111, 113, 115,

· Use a variety of models to compare and order fractions, investigate

equivalent fractions, and add & subtract fractions with like denominators.

Geoboard Area of 1

Geoboard Fractions

We think the area of Region A is:

half of the whole geoboard

 $\frac{1}{a} = \frac{2}{4}$ because A = 2B's

1 = 4 because A = 4 C's 1 = 8 because A = 8 D's

 $\frac{1}{2} = \frac{16}{32}$ because A = 16 E's

• $\frac{2}{4}$ because B is $\frac{1}{4}$, and A can hold 2 of B

 $\frac{2}{4}$ and $\frac{4}{8}$ and $\frac{8}{16}$ and $\frac{16}{22}$ are all names for $\frac{1}{2}$.

• 8 units

• 8 out of 16 or $\frac{8}{16}$

Grade Four

• Extend understanding of fraction equivalence as well as comparing and

Add and subtract fractions and mixed numbers with like denominators

Understand decimal notation for fractions, and compare decimal fractions

117, 119, 137

Resources in Bridges:

Bridges: Unit 4, Unit 6

Instructional Focus:

Number Corner: Nov & Feb Cal Grid, Nov Cal Collector, Mar & Apr Comp Fluency

Supplement Sets: A6, A9, A11, A12, D2

Practice Book: 76-79, 80, 84, 103-110, 114, 115, 117-119, 127, 129, 133-137

Grade Five

• Use equivalent fractions as a strategy to add and subtract fractions

· Interpret a fraction as division of the numerator by the denominator

Multiply a whole number or a fraction by a fraction

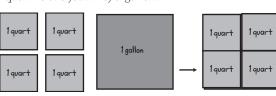
• Solve word problems involving addition, subtraction, and multiplication

Third Graders

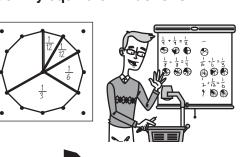
• Investigate fractions in the context of data and measurement.

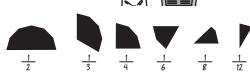
Student We cut it into 4 equal pieces, so I think that a *quart is one-fourth of a gallon.*

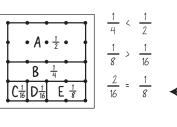
fractions are equivalent using visual models

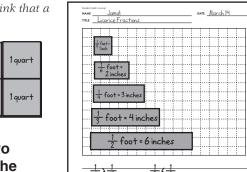


 Build and discuss fractions on two different types of geoboards. Use the models to compare fractions, and identify equivalent fractions.







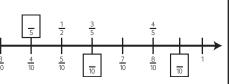


 Locate, compare and order fractions on



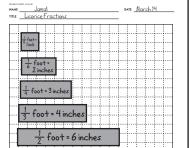
Student 1 Half a foot is 6 inches.

Student 2 And a third of a foot is 4 inches because 4 + 4 + 4 = 12.

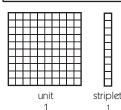


Common Core Standards Addressed:

CCSS 3.NF.1-3.NF.3



a ruler and a number line.



b Explanation (in words):

fourths plus 1 fourth plus 2 more fourths is 5

ourths in all. There are 4 fourths in an hour, so

akes him 1 and 1 hours to get ready for school

Use base ten pieces to model

and compare decimals to hundredths. Mark We built both numbers. Here's what they looked like with base ten pieces. We thought baby B was going to be heavier, because 9 is more

hundredths and 2 tenths. So baby A weighed more.



matlet than 2, but then when we built it, we remembered the numbers meant 9

1.09

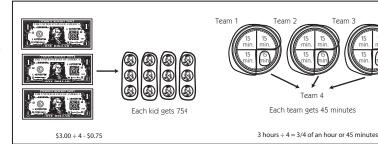
 $\frac{5}{4} = 1 \frac{1}{4}$ hour

Common Core Standards Addressed: CCSS 4.NF.1-4.NF.7

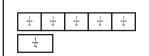
Fifth Graders

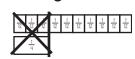
of fractions

 Investigate the relationship between fractions and division.



• Use models, including paper fraction strips to develop intuitions about adding and subtracting fractions with unlike denominators.





Student We decided to try 5/6 - 1/4 with fraction strips. We put out 5/6 and tried to figure out how to take away 1/4. We were pretty stuck until Morgan saw that we could turn the sixths into twelfths. Since 1/4 is the same as 3/12, we could see that the

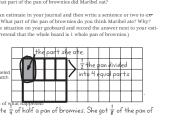
 Use models to see and understand least common multiples and their role in fraction addition and subtraction.



The Brownie Problem



 Make sense of fraction operations (+, -, x) in the context of story problems.



Estimate: About 4. There was only half a pan left, so she must have less than half. Here's the part she atte. It's $\frac{1}{6}$ or $\frac{2}{6}$. Half of the pan was already Maribelate 4 of 1 a pan of brownies. She ate 1 of the pan. There's still of a pan left, so she can have some later.

Common Core Standards Addressed: CCSS 5.NF.1-5.NF.6