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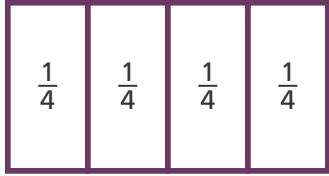
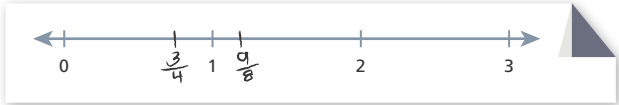
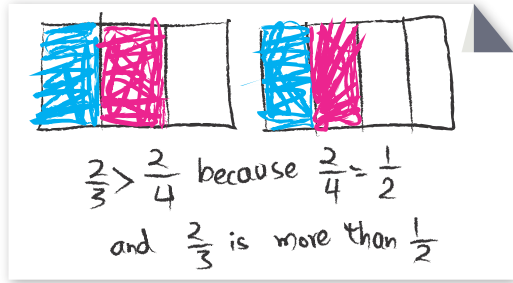
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About the Mathematics in This Unit

Dear Family,

Our class is starting a new mathematics unit about fractions called *Fair Shares and Fractions on Number Lines*. In this unit, students investigate the meaning of fractions and the ways fractions can be represented. They solve sharing problems (How can 2 people share 3 brownies equally?), represent fractions with area models and on number lines, compare fractions, and determine fraction equivalents ($\frac{2}{3} = \frac{4}{6}$).

Throughout the unit, students work toward these goals:

Benchmark/Goal	Examples
1. Partition a quantity into equal parts, and name those parts as fractions or mixed numbers.	
2. Represent fractions as numbers on a number line.	<p>Place the following fractions on the number line below: $\frac{3}{4}$, $\frac{9}{8}$.</p> 
3. Compare fractions with the same numerator or same denominator by reasoning about their size.	<p>Which is greater $\frac{2}{3}$ or $\frac{2}{4}$?</p> 

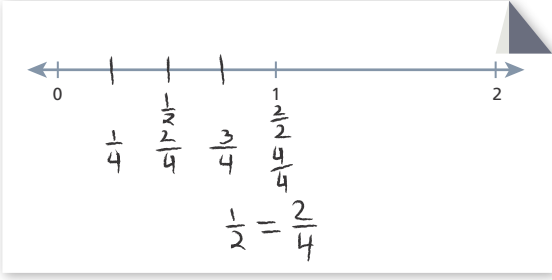
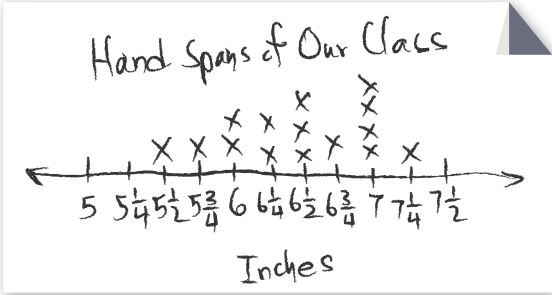


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About the Mathematics in This Unit

Benchmark/Goal	Examples
<p>4. Identify equivalent fractions.</p>	
<p>5. Measure to the nearest fourth inch and represent measurement data to the nearest fourth inch on a line plot.</p>	

In our math class, students spend time discussing problems in depth and are asked to share their reasoning and solutions. It is important that children solve math problems in ways that make sense to them. At home, encourage your child to explain the math thinking that supports those solutions.

Please look for more information and activities about *Fair Shares and Fractions on Number Lines* that will be sent home in the coming weeks.



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Related Activities to Try at Home

Dear Family,

The activities below are related to the mathematics in the fractions unit *Fair Shares and Fractions on Number Lines*.

You can use the activities to enrich your child's mathematical learning experience.

Fractions Every Day Take advantage of any natural opportunities to use fractions as they arise. You and your child can share and compare strategies for solving problems such as these:

- If you cut a whole pizza into 6 equal slices and ate 3 of the slices, what fraction of the pizza did you eat?
- If you want to share 10 cookies among four people, how can you share them equally? How much does each person get?
- The gas tank in our car holds 12 gallons, but right now it is only one fourth full. How many gallons of gas do we need to buy to fill up the tank?

Making a Whole In class, your child will be figuring out ways to combine fractions to make a whole, such as $\frac{1}{4} + \frac{3}{4} = 1$. You might build on this while cooking. If a recipe calls for one cup (or one-half cup) of an ingredient, pretend that the measuring cup that holds that amount is missing or broken. Ask your child how else you could measure that amount. What other cups might be combined (for example, $\frac{1}{2} + \frac{1}{4} + \frac{1}{4} = 1$, or $\frac{1}{2} + \frac{1}{2} = 1$)? You might check the prediction by pouring those amounts into the one-cup measure to see whether they fill the cup exactly.



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Related Activities to Try at Home

Fraction Scavenger Hunt In class, your child has been exploring fractions and fair shares. To build on this work, you and your child might investigate where and when you use fractions in your home or at the grocery store. You might have a Scavenger Hunt to locate fractions on such things as measuring cups, tools, food packages, in newspapers, and so on.

