Name Date Time

HOME LINK 8•1

Fractions All Around

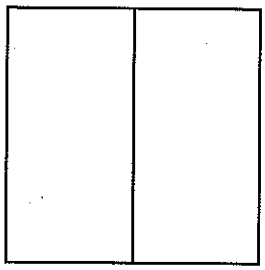
Family Note Help your child understand the idea of the ONE as well as fractions of objects and sets. Help your child look for objects and pictures that have fractions or decimals printed on them.

Please return this Home Link to school tomorrow.

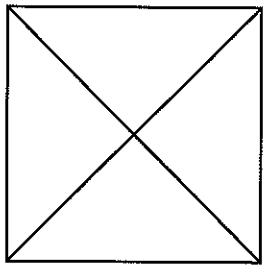
SRB 22–24

Each square flag below represents the ONE. Write the fractions that name each region inside each flag.

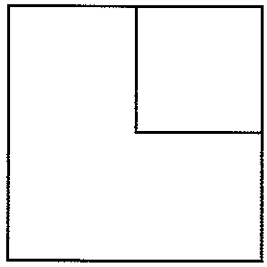
1.



2.



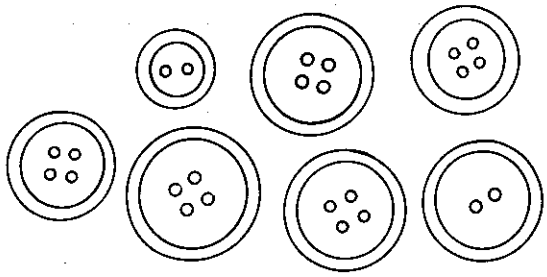
3.



Write the fractions.

4. _____ of the buttons have 4 holes.

5. _____ of the buttons have 2 holes.



Look for items around your home that have fractions or decimals on them, such as recipes, measuring cups, wrenches, package labels, or pictures in newspapers. Ask permission to bring them to school to display in our Fractions Museum.

Practice

Unit

Solve. Show your work.

6. 275 − 88

7. 684 − 97

8. 429 − 237

Name Date Time

HOME LINK 8•2

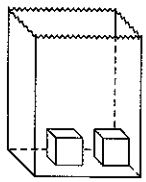
Drawing Blocks

Family Note Have your child explain how to decide how many red blocks to put into each bag in the problems below. If you have time, do the block-drawing experiments with your child and record the results on the back of this page. Ask your child to explain how to do the experiments.

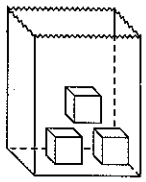
Please return this Home Link to school tomorrow.

Color the blocks in the bag blue.

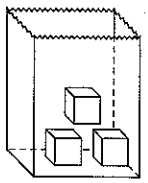
Answer each question about how many red blocks to put into the bag.



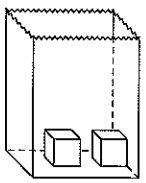
Example: If I wanted to take out a blue block twice as often as a red block, I would put in 1 red block.



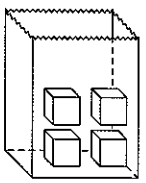
1. If I wanted to be sure to take out a blue block, I would put in ____ red block(s).



2. If I wanted to have an equal chance of taking out a red or blue block, I would put in ____ red block(s).



3. If I wanted to take out a red block about 3 times as often as a blue block, I would put in ____ red block(s).



4. If I wanted to take out a red block about $\frac{1}{2}$ of the time, I would put in _____ red block(s).

Practice

Unit

Solve. Show your work.

5. 765 − 567

6. 987 − 789

7. 432 − 234

Name Date Time

HOME LINK 8•3

Fraction Number Stories

Family Note Your child may benefit from modeling the number stories with pennies or counters. Help your child think about the problems as stories about equal shares or equal groups.

Please return this Home Link to school tomorrow.

Solve each problem. Tell someone at home how you did it.
Draw a picture on the back if it will help.

1. Lucy was playing a card game with 2 friends.
They were playing with a deck of 21 cards.
Lucy dealt $\frac{1}{3}$ of the deck to each person.
How many cards did Lucy get? _____ cards

2. Jonathan bought 12 pencils. He gave $\frac{1}{2}$ of them to his brother and $\frac{1}{4}$ of them to his friend Mike.
How many pencils did he give to Mike? _____ pencils

3. Gerard was reading a book with 40 pages.
He read 10 pages in an hour.
What fraction of the book did he read in an hour? _____

4. Melissa was reading a book with 50 pages.
She read 10 pages in an hour.
What fraction of the book did she read in an hour? _____

Follow the instructions below.

5. Draw 15 small circles. Circle $\frac{3}{5}$ of them.

6. Draw 12 small circles. Put an X through $\frac{3}{4}$ of them.

Name Date Time

HOME LINK 8•4

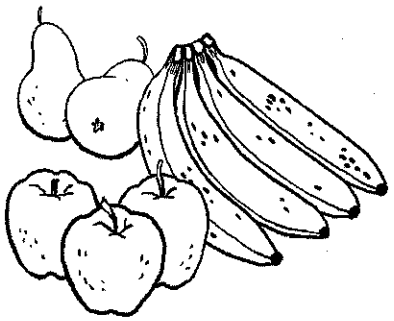
Fraction Puzzles

Family Note We have been working with fractions of regions and sets. Ask your child to explain how he or she knows which fractions to write in Problem 1. Today we began to think of fractions on a number line. For Problem 2, help your child count the number of intervals from 0 to 1 in order to figure out which fraction each small mark indicates.

Please return this Home Link to school tomorrow.

SRB 22 24 26

1. How many pieces of fruit are shown? _____



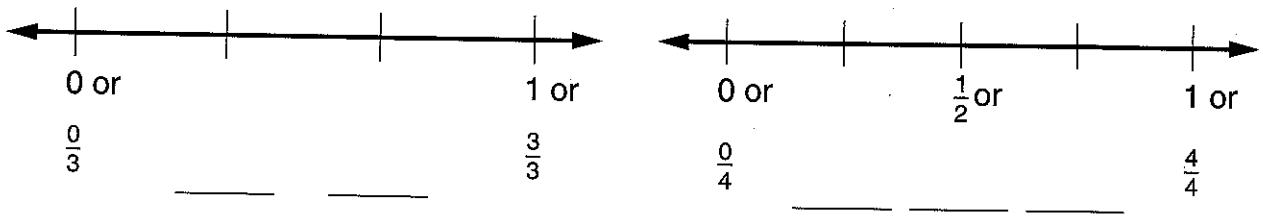
_____ of the fruit are bananas.

_____ of the fruit are pears.

_____ of the fruit are apples.

What fraction of the fruit are oranges? _____

2. Fill in the missing numbers on each number line.



Practice

Write these problems on the back of this page. Solve and show your work.

3. 444 − 398 = _____

4. 777 + 492 = _____

5. _____ = 888 − 678

6. 324 = _____ − 675

Continue to look for items and pictures that have fractions or decimals on them. Ask for permission to bring them to school for the Fractions Museum.

Name Date Time

HOME LINK 8•5

Equivalent Fractions

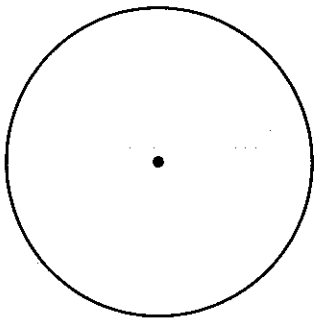
Family Note The class continues fraction work by finding equivalent names for fractions. Different fractions that name the same amount are called equivalent fractions. The fractions that complete Problems 4–6 are equivalent. If needed, help your child name the fractional parts in these problems. Ask your child to explain the fraction name she or he chooses in Problem 9—a fraction that is equivalent to $\frac{1}{4}$ and describes the fraction of cats circled.

Please return this Home Link to school tomorrow.

SRB 27–30

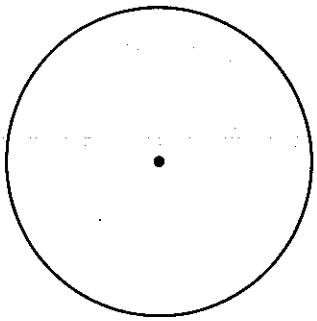
The pictures show three kinds of pie. Use a straightedge to do the following:

1. Divide the peach pie into 4 equal pieces. Shade 2 of the pieces.



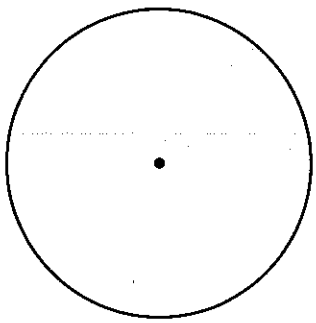
peach pie

2. Divide the blueberry pie into 6 equal pieces. Shade 3 of the pieces.



blueberry pie

3. Divide the cherry pie into 8 equal pieces. Shade 4 of the pieces.



cherry pie

What fraction of each pie did you shade?

4. I shaded _____ of the peach pie.
Write another name for this fraction: _____

5. I shaded _____ of the blueberry pie.
Write another name for this fraction: _____

6. I shaded _____ of the cherry pie.
Write another name for this fraction: _____

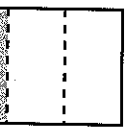
Name _____ Date _____ Time _____

HOME LINK 8•6

Comparing Fractions to $\frac{1}{2}$

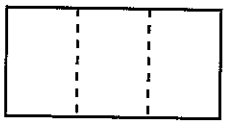
Family Note Your child's class is comparing fractions to determine whether they are larger, smaller, or equal to $\frac{1}{2}$. Ask your child to explain how to tell which category a fraction fits into. For more on this topic, see *Student Reference Book* pages 13, 31, and 32.

Please return this Home Link to school tomorrow.



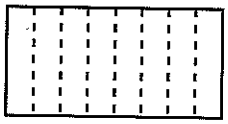
Shade each rectangle to match the fraction below it. **Example:** $\frac{2}{4}$

1.



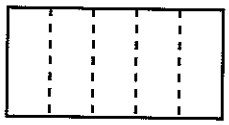
$\frac{2}{3}$

2.



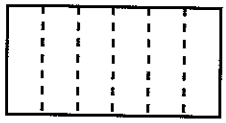
$\frac{3}{8}$

3.



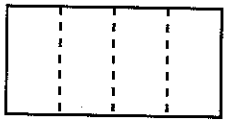
$\frac{2}{5}$

4.



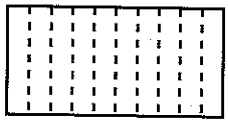
$\frac{3}{6}$

5.



$\frac{1}{4}$

6.

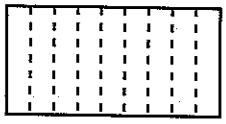


$\frac{5}{10}$

7.

$\frac{7}{8}$

8.



$\frac{5}{9}$

9. List the fractions above that are greater than $\frac{1}{2}$. _____

10. List the fractions above that are equal to $\frac{1}{2}$. _____

Insert $<$, $>$, or $=$ in each problem below. Draw pictures to help you.

11. $\frac{6}{8}$ _____ $\frac{1}{2}$

12. $\frac{2}{9}$ _____ $\frac{1}{2}$

13. $\frac{10}{12}$ _____ $\frac{1}{2}$

14. $\frac{6}{12}$ _____ $\frac{1}{2}$

$<$ means *is less than*
$>$ means *is greater than*
$=$ means *is equal to*

Practice

Solve.

15. $7 \times 8 =$ _____

16. $54 = 6 \times$ _____

17. $8 \times$ _____ $= 24$

18. $9 \times 8 =$ _____

Name _____ Date _____ Time _____

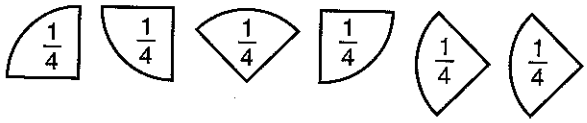
HOME LINK 8•7

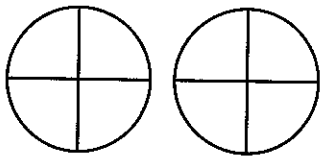
Fractions and Mixed Numbers

Family Note Today the class began looking at fractions greater than 1 and mixed numbers. We have been working with region or area models (shaded areas) for these numbers. Problem 5 asks about fractions of a set. The *whole* is a dozen eggs, so each egg is $\frac{1}{12}$ of the whole. Have your child explain how he or she figured out what the fraction and mixed number should be for the egg-carton drawings.

Please return this Home Link to school tomorrow.

1.





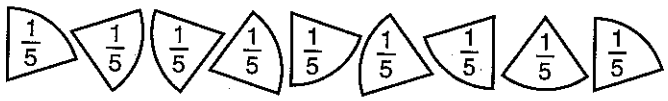
How many fourths? _____ fourths

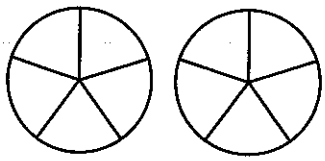
Color 6 fourths.

Write the fraction: _____

Write the mixed number: _____

2.





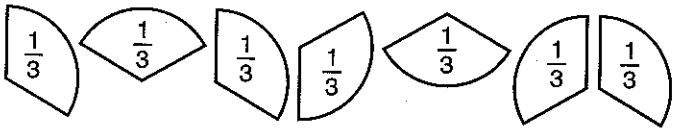
How many fifths? _____ fifths

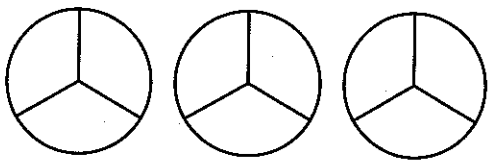
Color 9 fifths.

Write the fraction: _____

Write the mixed number: _____

3.





How many thirds? _____ thirds

Color 7 thirds.

Write the fraction: _____

Write the mixed number: _____

Name Date Time

HOME LINK 8•8

Fraction Number Stories

Family Note In class we have been solving many kinds of fraction number stories. If some of these Home Link problems seem difficult, encourage your child to model them with pennies or draw pictures to help solve them.

Please return this Home Link to school tomorrow.

Solve these fraction stories. Use pennies, counters, or pictures to help.

1. Elizabeth bought a dozen eggs. She dropped her bag on the way home, and $\frac{2}{3}$ of the eggs broke. How many eggs broke? ____ eggs

2. Katie mowed $\frac{3}{4}$ of the lawn before lunch. What fraction of the lawn did she have to finish after lunch? ____ of the lawn

3. Donnie lives 1 mile from school. One day he walked $\frac{1}{2}$ of the way to school when he remembered he had to return home to get a book. When he finally made it to school, how far did he walk in all? ____ miles

4. Sheridan made 4 trays of cookies. She took 2 trays to school for her classmates. She took $\frac{3}{4}$ of a tray of cookies to her teacher. How many trays of cookies did Sheridan have left? ____ trays

5. Jackson needed 2 pints of milk for his recipe. If he had one gallon of milk in the refrigerator, how much did he use? (*Hint:* 1 gallon = 4 quarts, and 1 quart = 2 pints) ____ gallon

Practice

Unit

Write these problems on the back of this page. Solve and show your work.

6. 2,083 + 4,678 = _____

7. 6,714 − 3,806 = _____

8. 4,762 + 4,762 = _____