

Home Connection 22 ★ Activity



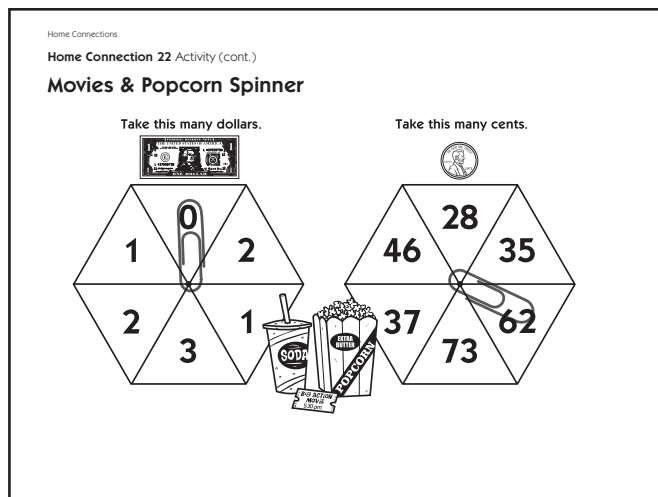
NOTE TO FAMILIES

In this week's Home Connection, you'll count, add, and subtract money while you try to collect the \$10 you'll need to go to the movies and buy popcorn and a drink. The player who collects at least \$10 first wins the game. Your child may have brought home money value pieces for extra support. Please remind your child to complete the worksheet and return it to school.

You'll need a pencil, paperclip, and scratch paper to play Movies & Popcorn. Your child can show you how to use the pencil and paperclip as a spinner.

Instructions for Movies & Popcorn

1 Take turns spinning the spinner on the back of this page and collecting the total number of dollars and cents for each turn. Talk to your partner about how much money you have and how much you need to reach \$10.



2 As you play, record your calculations on the scratch paper using decimals. Talk to your partner about how you added each spin to your total amount of money. What strategies are you using?

Dan	Mom
\$3.35	\$2.46
+ \$0.62	
<hr/>	
\$3.97	

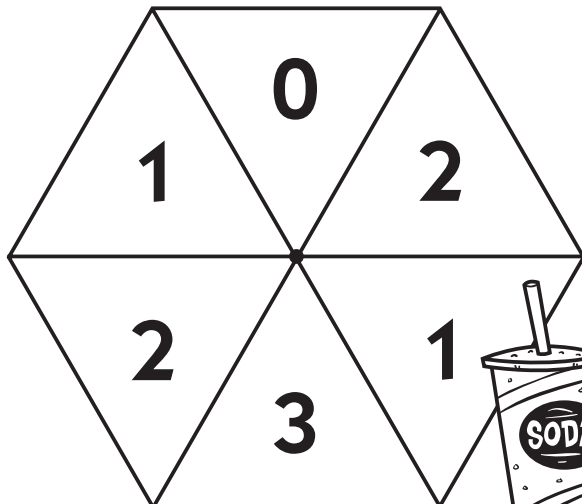
3 Compare your total with your partner's. Who is ahead? By how much?

4 The player who collects at least \$10 first wins the game.

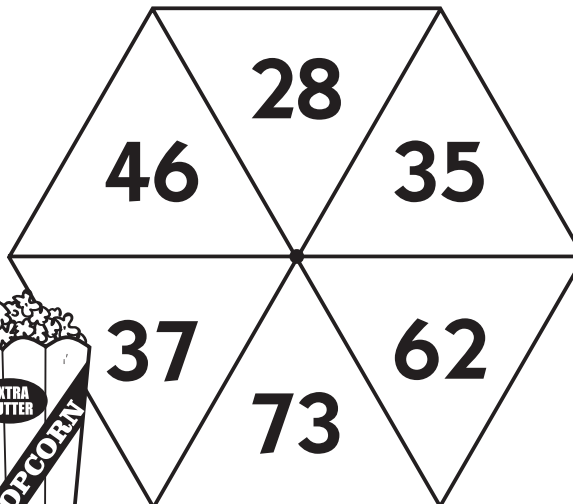
Home Connection 22 Activity (cont.)

Movies & Popcorn Spinner

Take this many dollars.



Take this many cents.



Home Connection 22 ★ Worksheet



NOTE TO FAMILIES

Have your child read and solve the story problems below. You can help your child read the problems if needed. Remind your child to show his or her work with sketches and/or numbers.

Money Story Problems

1 Ron had \$6.00 to spend at the carnival. He bought a hot dog and juice for \$4.67. How much money does he have left?

2 Uncle Dean took Victoria to lunch. They each had the soup and sandwich special for \$4.65 and just water to drink. How much was their bill?

3 Last year Kendall earned \$9.35 raking leaves for her neighbors. So far this year, she has earned \$7.85. How much more does she need to earn this year to make as much as she did last year?

4 Malik saw a ball cap on sale at the store for \$9.95. He has \$5.77 saved up so far. How much more money does he need to buy the cap?



CHALLENGE

5 Joe went to the feed store to buy some rabbit food for his bunny. They had a 25-pound bag for \$6.50 and a 50-pound bag for \$11.95. Which bag is the best deal? Explain your thinking on the back of this page.

Home Connection 23 ★ Activity



NOTE TO FAMILIES

Students played this game together as a class and in partners, and now they'll teach you. In Quad Spin & Win, players use 4 numbers to build the smallest or largest 4-digit number they can. You'll begin by spinning the more or less spinner to decide whether you'll each try to build the largest or smallest number possible. Then, you'll each spin the number spinner 4 times. Each time, you have to decide where to put your number: in the ones, tens, hundreds, or thousands place. Once you've placed your number, you can't change your mind, so you'll need to think carefully about your chances of rolling a higher or lower number in future spins. Your child can help you use a pencil and paperclip to make a spinner. Remind your child to complete the worksheet and return it to school with the record sheets.

You'll need a pencil, paperclip, and 2 record sheets.

Instructions for Quad Spin & Win

1 Write both players' names at the top of the record sheet.

2 Spin the more or less spinner first and circle whether you're playing for more or less in this round.

3 Take turns spinning and sketching your spin. The sketches are based on the base ten pieces we use to build numbers in class: the ones are small dots, the tens are skinny strips, the hundreds are squares, and the thousands are long rectangles. (See the example to the right.)

4 After four spins, record your totals and circle the winner.

Home Connections
NAME Ravi DATE _____
Home Connection 23 Activity (cont.)
Quad Spin & Win Record Sheet page 1 of 2
Player A Ravi Player B Aunt Nina

Round 1 We played for MORE less

1000's 	100's 	10's 	1's 	Player A Total 3657
1000's 	100's 	10's 	1's 	Player B Total <u>3438</u>

5 Play two more rounds.

NAME _____

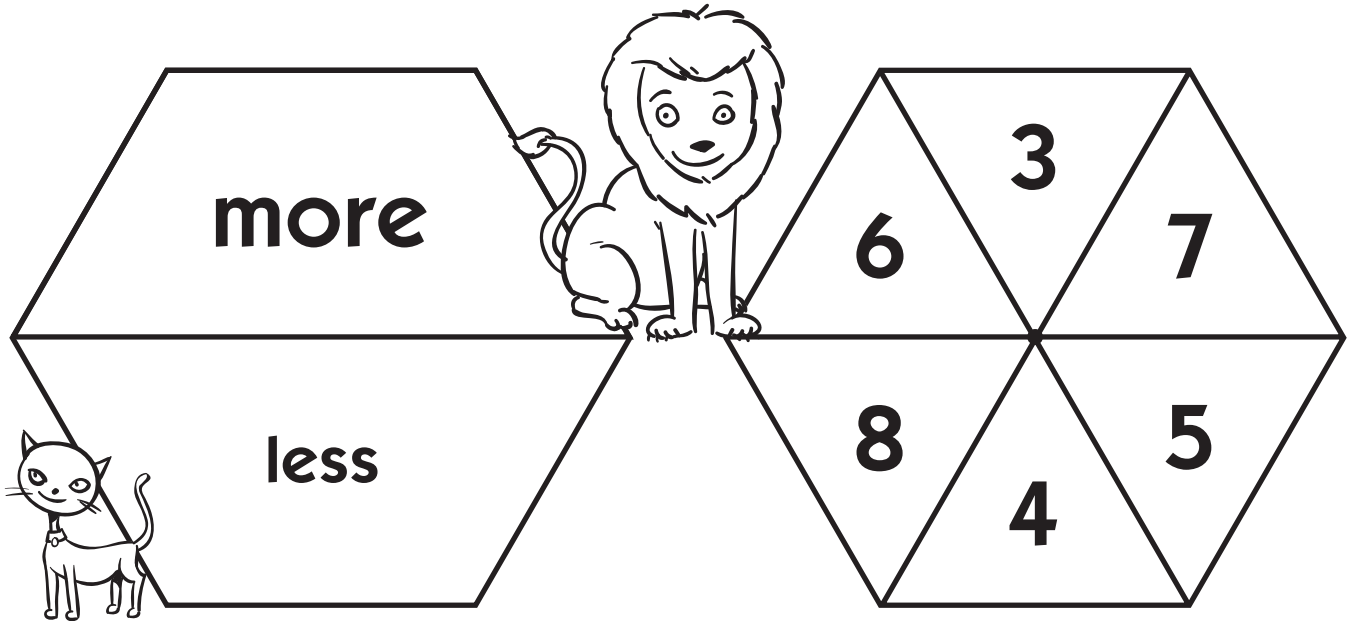
DATE _____

Home Connection 23 Activity (cont.)

Quad Spin & Win Record Sheet page 1 of 2

Player A _____

Player B _____



Round 1

We played for



MORE



less

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

NAME _____

DATE _____

Home Connection 23 Activity (cont.)

Quad Spin & Win Record Sheet

page 2 of 2

Player A _____

Player B _____



Round 2

We played for


MORE

less

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

Round 3

We played for


MORE

less

1000's	100's	10's	1's	Player A Total
1000's	100's	10's	1's	Player B Total

NAME _____

DATE _____

Home Connection 23 ★ Worksheet



NOTE TO FAMILIES

Your child will record five of the 4-digit numbers from the game you just played in expanded notation and in words. If your child is up for a challenge ask her or him to find the difference between 2 of the numbers from your game.

Four-Digit Numbers

example Your total: 3438

expanded notation: $3438 = 3000 + 400 + 30 + 8$

words: three thousand, four hundred, thirty-eight

1 Your total from round one: _____

expanded notation: _____

words: _____

2 Your total from round two: _____

expanded notation: _____

words: _____

3 Your total from round three: _____

expanded notation: _____

words: _____

Continued on back.

Home Connection 23 Worksheet (cont.)

4 Your partner's total from round one: _____

expanded notation: _____

words: _____

5 Your partner's total from round two: _____

expanded notation: _____

words: _____



CHALLENGE

6 Find the exact difference between your number and your partner's number from one of the rounds of Quad Spin & Win. Show your thinking below.

Home Connection 24 ★ Activity



NOTE TO FAMILIES

We've been working with units of volume measurement this week. Your child made a model for these units of volume and would like to teach you how to make one also so you can play a game together. Throughout the game, you'll be talking about the conversions between cups, pints, quarts, and gallons. We've provided the following guide for your review.

2 cups = 1 pint	2 pints = 1 quart	4 quarts = 1 gallon
4 cups = 1 quart	8 pints = 1 gallon	
16 cups = 1 gallon		

Have your child complete the worksheet on the back of the spinner page and return it to school.

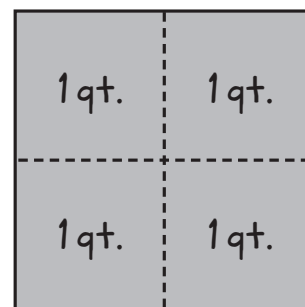
To make a set of pieces for this game, you'll need colored squares of construction paper in red, yellow, blue, and purple. If your child brought home two sets of pieces, ignore the instructions below and follow the instructions on the back of this page to play the game.

Instructions for Making the Gallon, Quart, Pint & Cup Pieces

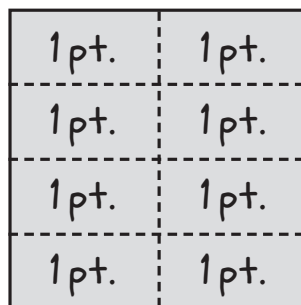
- 1 Begin by labeling the red square *1 gal.* or *1 gallon*.
- 2 Cut the yellow square in half vertically and then in half again horizontally to make 4 quart pieces. Label the pieces *1 qt.* or *1 quart*. Each time you cut and label a new set of pieces, place them on top of the gallon and talk about how many of each unit make up a whole gallon. (*If you don't have scissors, fold the paper twice and rip it carefully.*)
- 3 Now cut the blue paper into 8 equal pieces to make pints. Label them *1 pt.* or *1 pint*.
- 4 Finally, cut your purple paper into 16 equal parts to make 16 cups. Label them *1 c.* or *1 cup*.



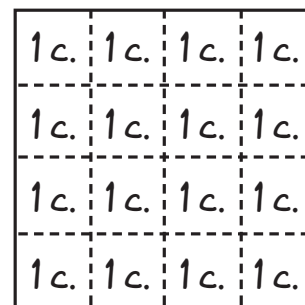
1 gallon



4 quarts fit in a gallon.



There are 8 pints in a gallon.



16 cups make a gallon.

Continued on back.

Home Connection 24 Activity (cont.)

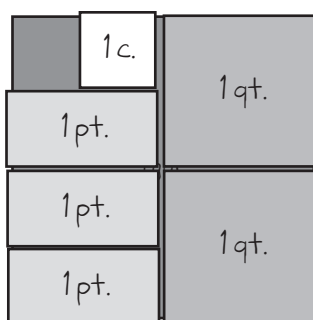
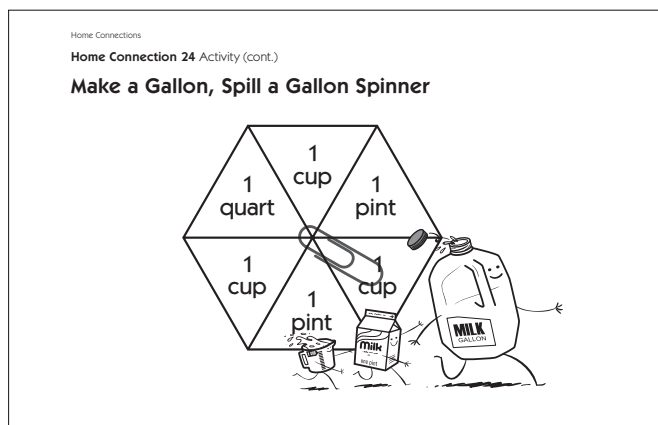
Make a Gallon, Spill a Gallon

You'll need two sets of cup, pint, quart, and gallon pieces, as well as a spinner and a pencil and paperclip for spinning.

Instructions for Make a Gallon, Spill a Gallon

1 Take turns spinning the spinner (using a pencil and paperclip) to see what piece you'll put directly on top of your gallon square.

2 Continue spinning and placing your pieces on top of your gallon square until you get exactly the right amount to fill the gallon.



3 As you play, be sure to keep talking about how many quarts, pints, and cups you have, and what you need to make the gallon. Use fraction words

like *half*, *quarter*, *eighth*, and *sixteenth* with your child so he or she can see the parts that make a gallon. Use the table below for reference. There will be many other ways to express the relationships between units as fractions; use your pieces to guide your thinking and see the fractions.

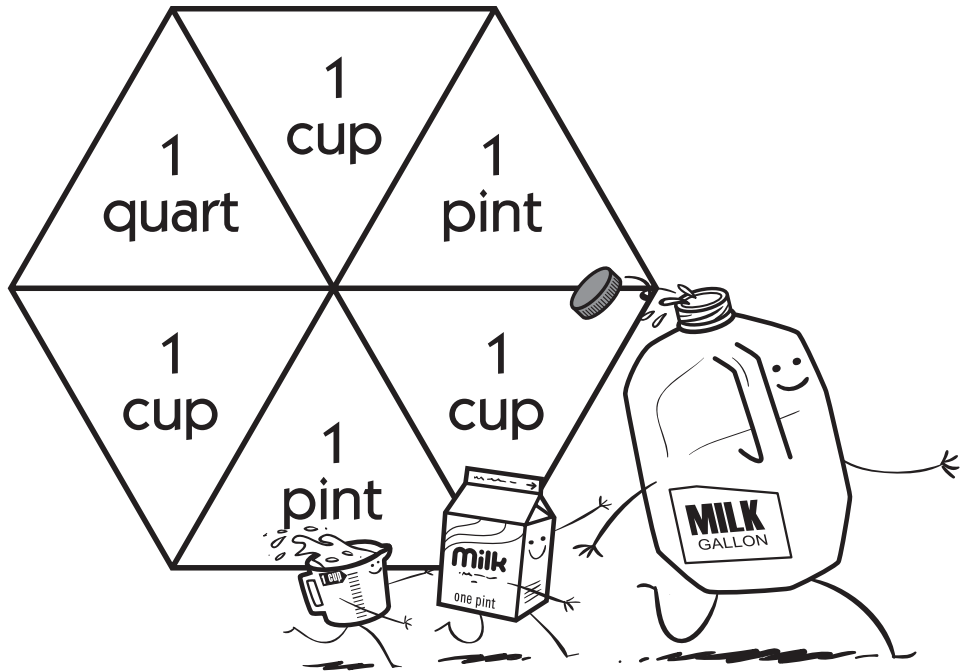
2 quarts = $\frac{1}{2}$ gallon	4 pints = $\frac{1}{2}$ gallon
1 quart = $\frac{1}{4}$ gallon	1 cup = $\frac{1}{16}$ gallon
1 pint = $\frac{1}{8}$ gallon	2 cups = $\frac{1}{2}$ quart
1 pint = $\frac{1}{2}$ quart	4 cups = $\frac{1}{4}$ gallon

4 If you spin too much, you'll have to pass on that turn. For example, if you have 2 quarts, 3 pints, and 1 cup, you'll need 1 cup to win. If you spin anything other than 1 cup, you lose that turn.

5 Once you have a winner, leave your pieces on your gallon square and play Spill a Gallon. This time you'll try to remove all the units to "spill" a gallon. You'll need to spin exactly what you need to empty the gallon.

Home Connection 24 Activity (cont.)

Make a Gallon, Spill a Gallon Spinner



NAME _____

DATE _____

Home Connection 24 ★ Worksheet



NOTE TO FAMILIES

Your child will practice converting units of volume measure using the cut paper pieces for additional support. Encourage your child to use the abbreviations for the different units of measure.

That's a Lot of Milk

1 3 cups of milk are equal to _____. Show your thinking.

2 3 pints and 2 cups are equal to _____. Show your thinking.

3 7 pints of milk are equal to _____. Show your thinking.

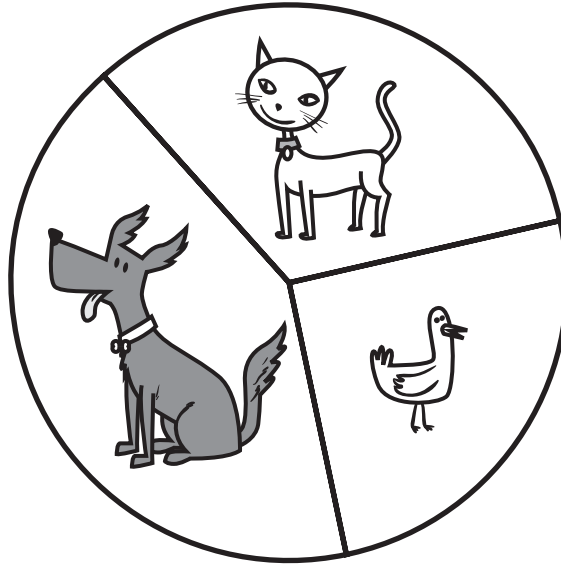
4 4 pints and 1 quart are equal to _____. Show your thinking.

5 2 quarts, 6 pints, and 6 cups are equal to _____. Show your thinking.

Home Connection 25 Activity (cont.)

Probability Spinners

First Spinner



Second Spinner

