

Home Connection 1 ★ Activity



NOTE TO FAMILIES

As a classroom teacher, I appreciate the role families play in their children's success at school. When you take the time to review your child's schoolwork, talk about your child's day, and practice concepts and skills, you play a very important part in your child's education.

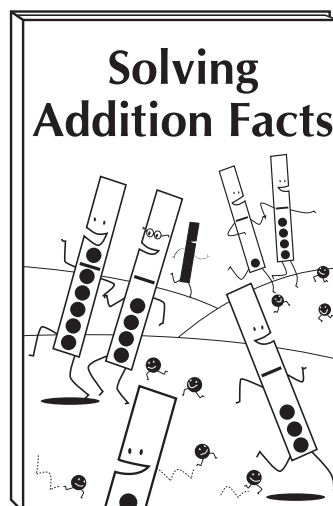
Please read with your child the book he or she brought home called *Solving Addition Facts*. This book is about some different ways to solve basic addition facts. Many of us learned our addition facts by memorizing them and then practicing them while playing card games and board games with dice. Over the past 20 years or so, research has found that many students do better when they see pictures of the facts and think about specific ways to solve them. Your child may have already mastered these addition facts or have other ways of thinking about them. In that case, thinking about new ways to solve the facts helps your child be flexible. These ways of adding numbers can also help children work with larger numbers.

Please keep this book in a safe place in your home so that you can refer to it in the coming weeks. If you have any questions, please contact me at school.

Instructions for *Solving Addition Facts* Book

Please read the book *Solving Addition Facts* with your child. The book invites you and your child to think of addition facts and draw them or write word problems about them. These activities are meant to get you and your child involved and talking with each other about mathematics. Please sign and return this sheet when you have read the book.

Sign here: _____ Date: _____



Home Connection 2 ★ Activity



NOTE TO FAMILIES

The Home Connection this week includes a card game called Addition Facts Challenge and a worksheet called Addition & Subtraction Fact Families. Your child has played Addition Facts Challenge at school and will enjoy teaching you how to play. As you work with your child, encourage him or her to use the ten-strips on the back of this page. We've been using the ten-strips in class to show our computation strategies and to look at relationships between numbers.

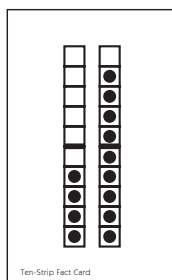
Note that each one contains two columns of 10 and that the horizontal black bar makes it easy to see the groups of 5 as well. We encourage students to use these strips to see relationships between numbers and to think about groups of 5 and 10 as they add numbers.

You'll need the Ten-Strip Fact Cards, the ten-strips on the back of this page, and something to write with. Cut the game cards apart if your child has not already cut them apart in school.

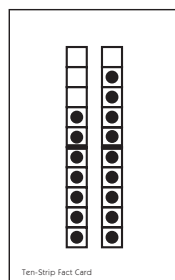
Instructions for Addition Facts Challenge

1 Mix the cards up. Place them in a stack face down. Draw one card from the top of the pile and have your child do the same.

2 You and your child should each add the quantities shown in the ten-strips on your own cards.



Maggie $4 + 9 = 13$ Dad $7 + 9 = 16$



3 Ask your child to describe how she or he found the sum on each card. How do you see it? Share your ideas. Your child may want to fill in the ten-strips

on the back of this page to show how he or she thinks about some of the addition facts.

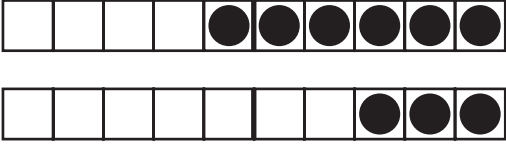
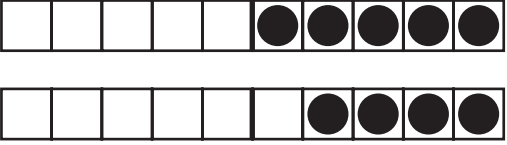
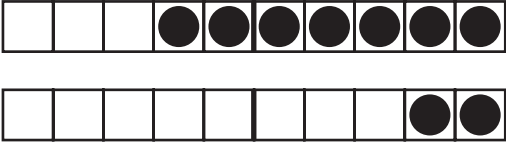
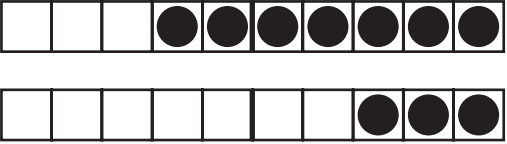
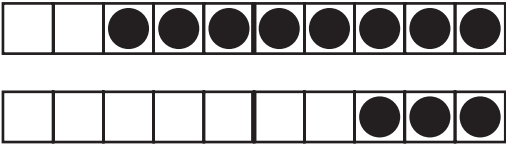

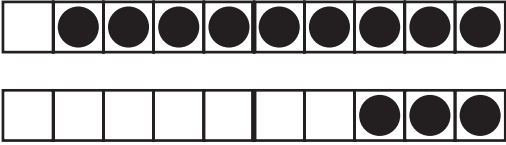

4 Compare sums with your child. The high value wins. In the case of a tie, you'll each need to draw another card. The winner of that round wins all 4 cards.

5 Take turns drawing cards and playing until you are out of cards. Then count your cards. The person with the most cards wins the game.

6 When you have completed the game, ask your child to complete the worksheet and bring it back to school.

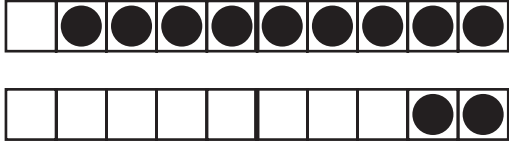
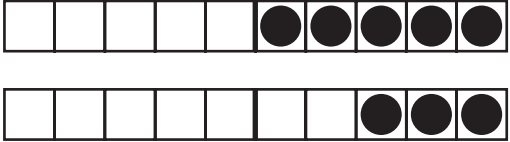
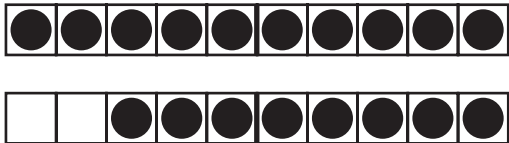
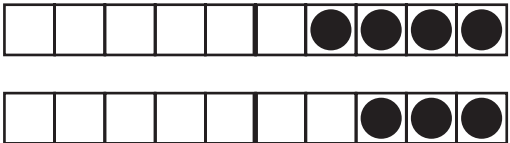
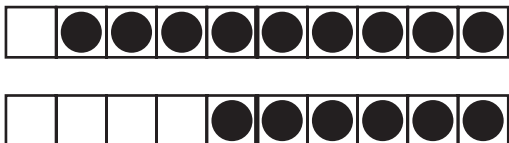

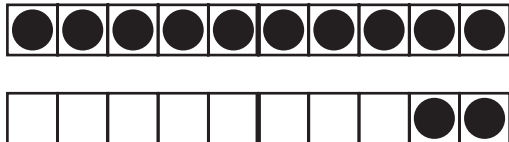
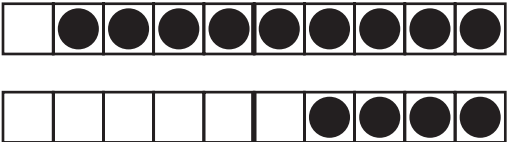
Ten-Strip Fact Cards page 1 of 4

Cut out cards along solid lines.

 <p>Ten-Strip Fact Card</p>	 <p>Ten-Strip Fact Card</p>
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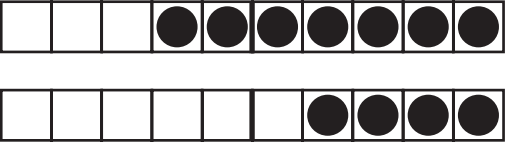
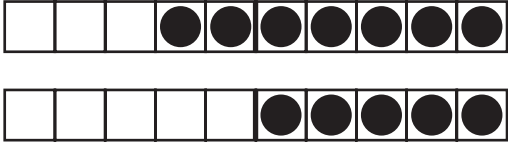
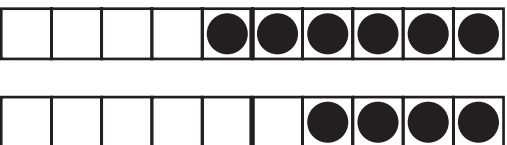
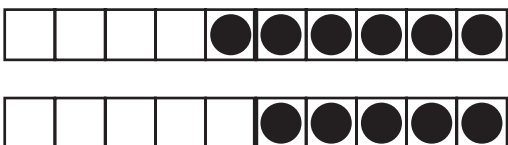
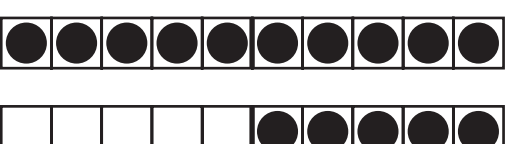
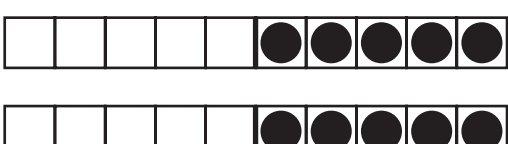
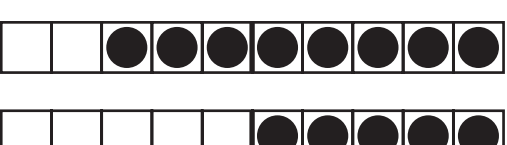
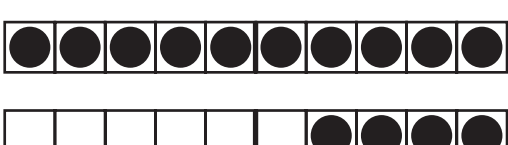
Ten-Strip Fact Cards page 2 of 4

Cut out cards along solid lines.

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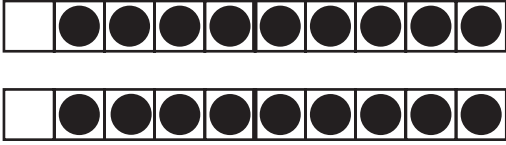
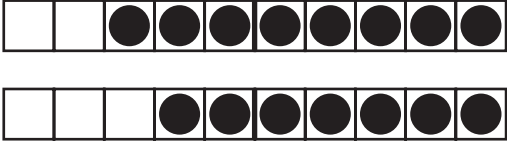
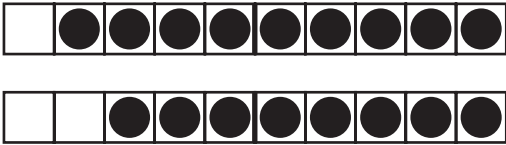
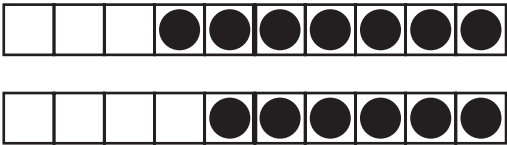
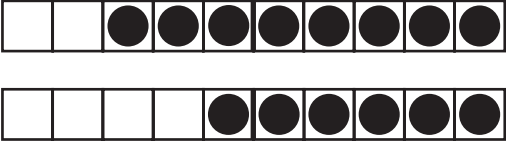
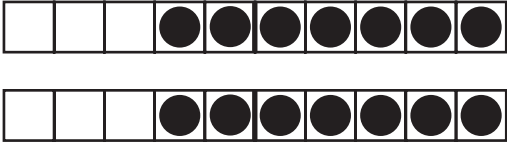
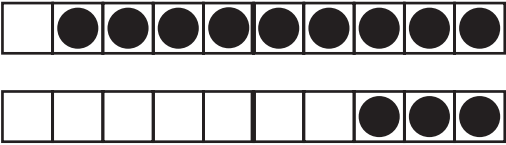
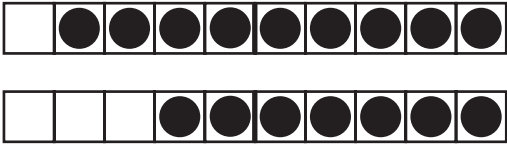
Ten-Strip Fact Cards page 3 of 4

Cut out cards along solid lines.

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Ten-Strip Fact Cards page 4 of 4

Cut out cards along solid lines.

 <p>Ten-Strip Fact Card</p>	 <p>Ten-Strip Fact Card</p>
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Home Connection 2 ★ Worksheet

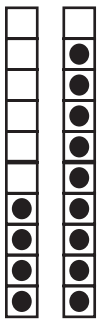


NOTE TO FAMILIES

This worksheet is designed to give your child the chance to explore the relationship between addition and subtraction using a visual model and number sentences.

Addition & Subtraction Fact Families

Write all the number sentences for the fact family shown in each pair of ten-strips. Remember that there will be just 2 facts for fact families with doubles.



example

$$4 + 9 = 13$$

$$9 + 4 = 13$$

$$13 - 9 = 4$$

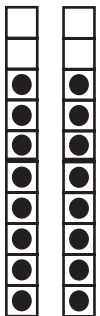
$$13 - 4 = 9$$



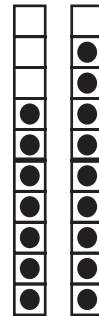
example

$$4 + 4 = 8$$

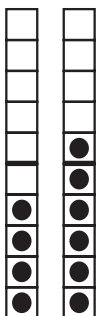
$$8 - 4 = 4$$



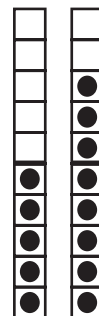
a



b



c



d



CHALLENGE

Write a story problem on the back of this page using one of these facts. Bring it to school to share.

Home Connection 3 ★ Activity



NOTE TO FAMILIES

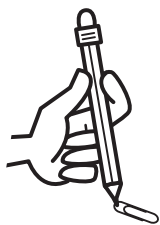
This week's Home Connection is a game called Spin & Add. Your child has played this game at school and will be able to teach you how to play. This game provides practice with many basic addition facts while also giving players the chance to consider the probability of getting different sums. As you play, you may begin to notice that there is a greater chance of getting certain sums than others.

You'll need the game board, a paperclip, and a pencil.

Instructions for Spin & Add

1 Take a look at the two spinners. Each time, you'll spin both spinners and add the two numbers. Which sum do you and your child think will come up most frequently? You should each make your own prediction and circle the sum at the bottom of the page. Explain your predictions to each other.

2 Use a paperclip and pencil to spin each spinner once. (Your child can show you how to use a paperclip and pencil as a spinner.)



Add the two numbers together. In the example to the right, 7 and 6 were spun. The sum is 13, so the equation $7 + 6 = 13$ is recorded in the column marked 13.

- 3** As you play, ask your child to explain how she or he found each sum. Explain your own thinking too. Your child may share with you some of the strategies for adding numbers that we've been discussing in class.
- 4** Continue spinning and recording until one column is completely filled in.

NAME Midori NAME Grandpa

Home Connection 3 Activity (cont.)
Spin & Add Game Board

					$9 + \frac{6}{12}$	$8 + \frac{8}{12}$													
				$7 + \frac{7}{12}$	$8 + \frac{8}{12}$	$7 + \frac{9}{12}$													
		$6 + \frac{6}{12}$		$8 + \frac{8}{12}$	$10 + \frac{10}{12}$	$6 + \frac{10}{12}$	$10 + \frac{7}{12}$												
	$5 + \frac{5}{12}$	$7 + \frac{5}{12}$	$7 + \frac{6}{12}$	$9 + \frac{5}{12}$	$6 + \frac{9}{12}$	$9 + \frac{7}{12}$	$8 + \frac{9}{12}$	$10 + \frac{8}{12}$	$9 + \frac{10}{12}$										
10	11	12	13	14	15	16	17	18	19	20									

- 5** When you're finished, ask your child to complete the worksheet and take it back to school.

Home Connection 3 ★ Worksheet



NOTE TO FAMILIES

This worksheet is designed to help you and your child begin to understand why certain sums come up more often than others in the game Spin & Add. Although you'll identify the sums that are most likely to come up, your game results may vary. That's one of the reasons spinner games are so engaging.

What about those middle numbers?

Are you wondering why the middle numbers keep winning on the game you just played? This table might help you begin to understand why!

+	5	6	7	8	9	10
5	$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$				
6						$\begin{array}{r} 10 \\ + 6 \\ \hline 16 \end{array}$
7					$\begin{array}{r} 9 \\ + 7 \\ \hline 16 \end{array}$	
8		$\begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array}$				
9			$\begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array}$			
10				$\begin{array}{r} 8 \\ + 10 \\ \hline 18 \end{array}$		

1 Fill in the sums on the table. Some have already been completed for you.

Continued on back.

Home Connection 3 Worksheet (cont.)

2 Now color in all the facts with the same sum using one color of marker or colored pencil. For example, you could color all the facts with sums of 10 red, all facts with sums of 11 blue, and so forth. This should make it easier to see which sums appear most often.

3 Which sums came up most often on the table? _____

4 Which sums came up least often on the table? _____

5 Which sums came up most often in your game of Spin & Add? _____

6 Is that what you expected? Why or why not? _____
