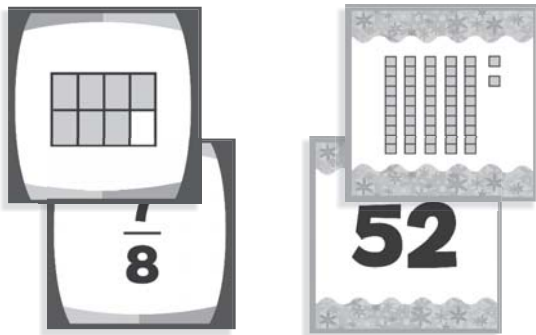


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# Introduction

*Math Games Galore! Number Sense and Place Value* contains 10 ready-to-use games and 10 reproducible activity pages that teach and reinforce essential math skills. The activities in this resource have been designed to allow you to differentiate for the varying ability levels of your students. Like the classic memory match game, the objective is to find the most pairs of matching cards using visual recall. The games support standards-based skills that require equivalent matching.



A variety of reproducible pages have been provided for students to reinforce the skills practiced in the games. Use these pages as review, as homework, or as written assessment tools. Show children's work to parents during conferences, or send their work home for parents to use in supporting their children's learning.

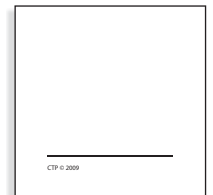
Students are provided practice in the following skills:

- Using models to develop understandings of place value and the base-ten system
- Representing and using whole numbers in flexible ways, including expanded form
- Recognizing and naming fractions from  $\frac{1}{12}$  to  $\frac{1}{2}$
- Recognizing fractions of a whole and parts of a group

The games include several features designed for both successful and meaningful independent use. Every game plays by an identical set of rules and directions. Once students learn how to play one game, they have learned how to play all 10 games. Another feature that promotes autonomy is the easy-to-use answer key card included with every game. This self-check tool allows students to compare their cards against possible matching pairs. The answer key becomes the game's teacher. It ensures that students are learning correct information, and it eliminates the troubles that come from guessing. Lastly, the back of each game card includes a solid line to indicate the bottom edge. This facilitates game setup and prevents the confusion of reading the cards upside down or sideways.

Patterns of +10				
7, <input type="text"/> , 27	9, <input type="text"/> , 29	6, 16, <input type="text"/>	21, <input type="text"/> , 41	30, <input type="text"/> , 50
<b>17</b>	<b>19</b>	<b>26</b>	<b>31</b>	<b>40</b>
35, 45, <input type="text"/>	42, 52, <input type="text"/>	63, <input type="text"/> , 83	78, <input type="text"/> , 98	74, 84, <input type="text"/>
<b>55</b>	<b>62</b>	<b>73</b>	<b>88</b>	<b>94</b>

answer key



back of game card

Begin using *Math Games Galore! Number Sense and Place Value* today. The ready-to-use card stock game cards and answer key cards require minimal preparation. Once introduced, the materials store easily and travel anywhere students need them. Get children excited about math with the activities in this resource.

# Getting Started

## Preparing Game Materials

1. Copy card stock game cards and answer key cards if multiple copies of the same game are needed.
2. Pull out the colored card stock game cards. Separate the pieces along the perforated lines.
3. Laminate the answer key cards and the game cards for durability.
4. Attach the answer key card to a sandwich-size resealable plastic bag or small manila envelope, and place the game cards inside.
5. Store the games in a plastic or cardboard shoe box.

## Game Play:

**Number of Players:** 1–3

### Objective:

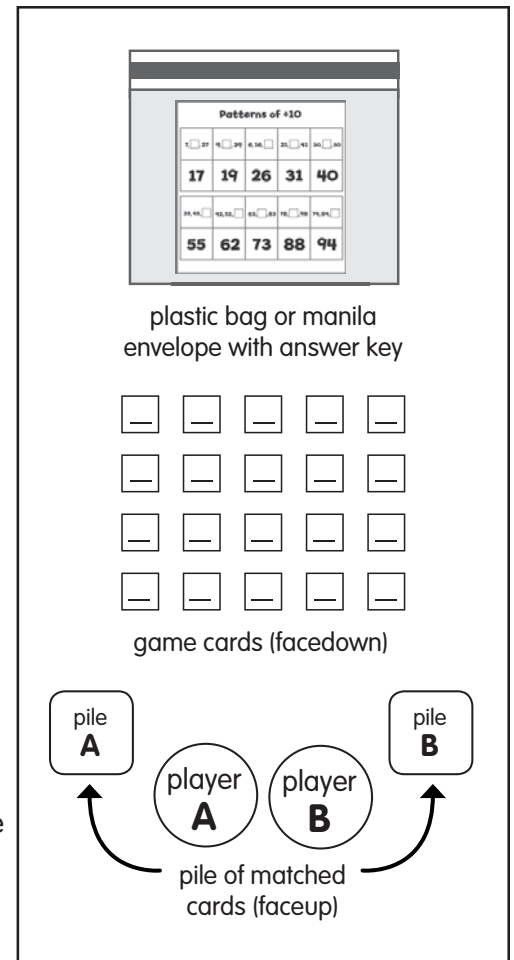
- 1 player: Match all pairs of cards in the fewest number of turns.
- 2–3 players: Find the most pairs of matching cards.

### Game Directions:

1. Determine which player goes first.
2. Player 1 turns over two cards image-side up, allowing Player 2 to see. Have students consult the answer key if they are not sure if a pair matches.
  - A. If the cards match: Player 1 removes the cards and places them faceup in his or her designated pile area. This helps to avoid accidental re-inclusion with the cards still in play, and it leaves two vacant spots in the field of unmatched cards.
  - B. If the cards do not match: Player 1 returns them to their facedown positions.
3. Player 2 turns over two cards, following steps A and B outlined above.
 

*Note:* Students do not continue with their turn if they make a match. This assures equal playing/learning time and creates less confusion.
4. Repeat until all 10 pairs are matched. The player with the most pairs of matching cards wins.
5. The player with the fewest matching cards starts the next game. Or in the event of a tie, the player who started the game will go last in the next game.
6. When game time has ended, have players gather the cards, place them in the plastic bag or manila envelope, and return them to the storage container.

## Game Setup



## Tips for Trouble-Free Game Play

- Choose from one of the following methods for determining who starts the first game: alphabetical order by first or last name, youngest player, or player with the closest birthday. Thereafter, have the player with the fewest matching cards start the next game.
- Teach good sportsmanship: Remind students to wait their turn, play fair, and shake hands and/or say “good game” after each game.
- Teach quiet game play: Encourage students to be respectful of others by using quiet voices.
- Teach game organization: Have students maintain a 5 x 4 game card layout, keep unmatched cards in their original positions, keep matched cards faceup, and follow cleanup procedures.
- Create a game grid mat (similar to the game cards layout shown in the diagram on page 4) on poster board or a large sheet of construction paper to facilitate the setup of the game cards.

## Additional Uses for Games

### Use the game pieces in the following ways:

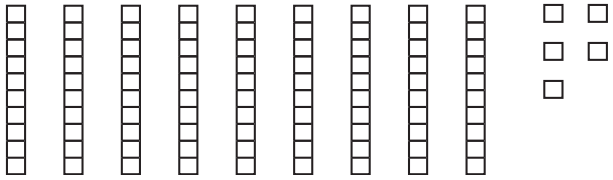
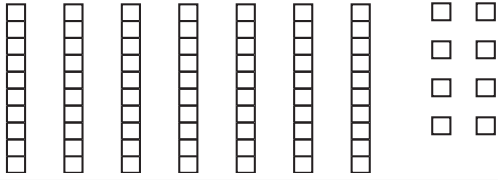
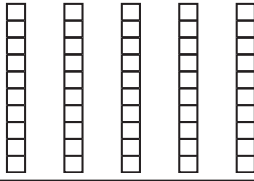
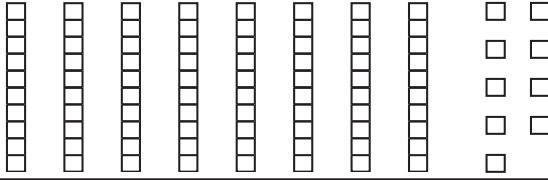
- As a transition or time-filling activity (Randomly pass out one card to each student, and have students find their matching partners to demonstrate their understanding of a concept.)
- As a method of selecting classroom partners
- To play classic card games like Go Fish and War
- As flash cards for review by individual students or small groups
- To play Around the World

### Use the complete games for the following:

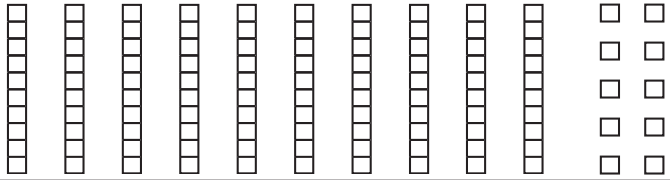
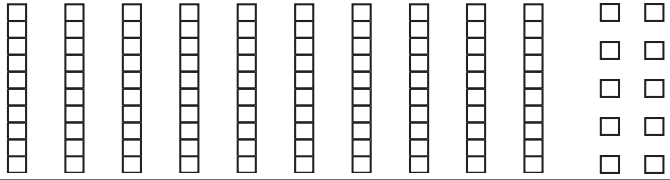
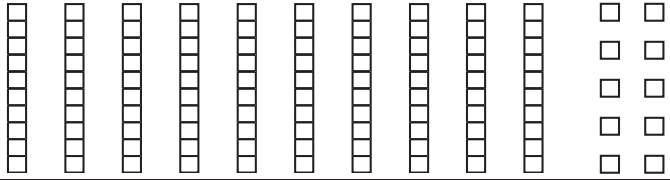
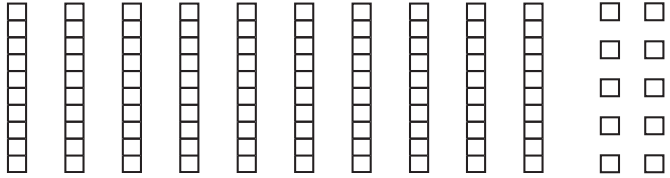
- To support the home-school connection by assigning games for homework
- To play with an older buddy class
- To make teacher-created or student-created games for themes or different skills practice using the Blank Game Template on page 16 (For example, for student-created gifts, have students make matching pictures or words about their moms for Mother’s Day. Use stickers for quick game enhancement.)
- As an indoor recess activity
- To play during a Math Game Night

# Place Value: 1-99

Write how many tens and ones. Then write the number.

<b>1.</b>		<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			_____
Tens	Ones						
<b>2.</b>		<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			_____
Tens	Ones						
<b>3.</b>		<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			_____
Tens	Ones						
<b>4.</b>		<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			_____
Tens	Ones						

Write how many tens and ones. Color the base-ten blocks to match each number.

<b>5.</b>	<b>26</b>	<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			
Tens	Ones						
<b>6.</b>	<b>64</b>	<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			
Tens	Ones						
<b>7.</b>	<b>17</b>	<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			
Tens	Ones						
<b>8.</b>	<b>43</b>	<table border="1" style="margin: auto;"> <tr> <th style="padding: 5px;">Tens</th> <th style="padding: 5px;">Ones</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>	Tens	Ones			
Tens	Ones						

# Place Value: 100-

Write how many hundreds, tens, and ones. Color the base-ten blocks to match each number.

<b>1.</b>	<b>344</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				
Hundreds	Tens	Ones							
<b>2.</b>	<b>257</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				
Hundreds	Tens	Ones							
<b>3.</b>	<b>428</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				
Hundreds	Tens	Ones							

Write how many hundreds, tens, and ones. Then write the number.






<b>4.</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				_____
Hundreds	Tens	Ones							
<b>5.</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				_____
Hundreds	Tens	Ones							
<b>6.</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Hundreds</th> <th style="width: 33%;">Tens</th> <th style="width: 33%;">Ones</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Hundreds	Tens	Ones				_____
Hundreds	Tens	Ones							






# Expanded Form: Tens and Ones

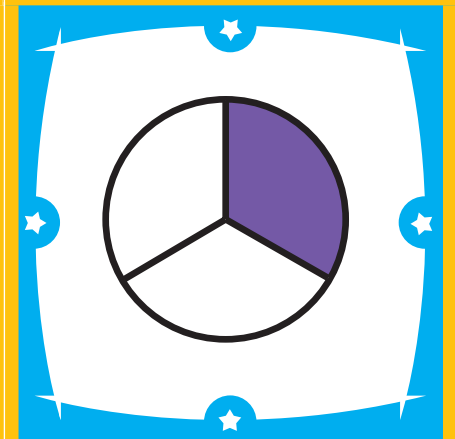
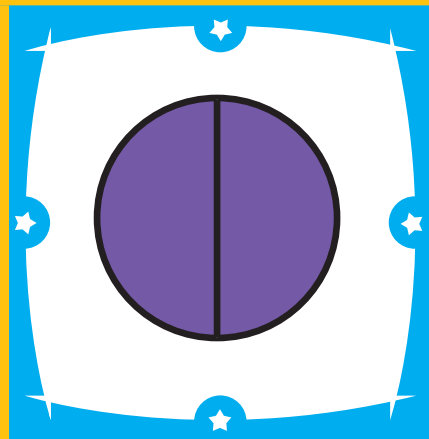
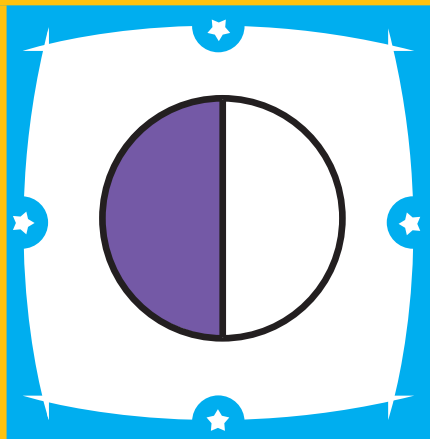
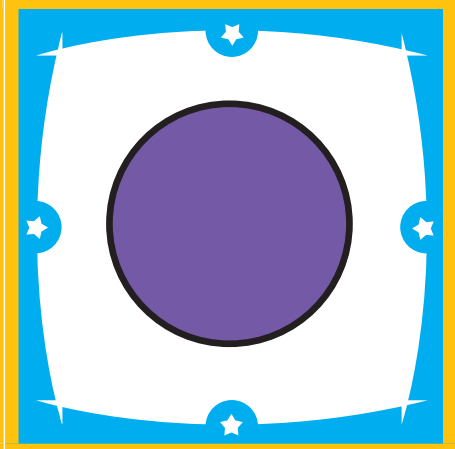
Write the number in either standard form or expanded form.

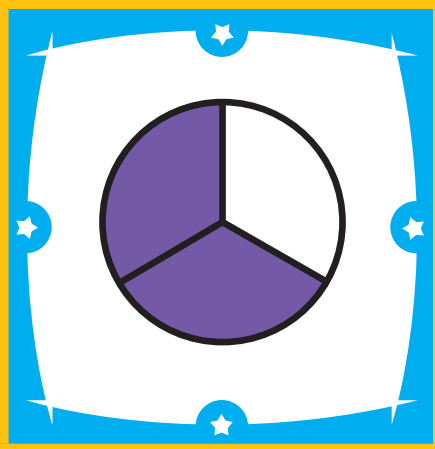
Expanded Form	Standard Form	Standard Form	Expanded Form
A. <b><math>60 + 7</math></b>	<b>67</b>	I. <b>73</b>	<b><math>70 + 3</math></b>
B. <b><math>40 + 0</math></b>	_____	J. <b>14</b>	_____ + _____
C. <b><math>20 + 9</math></b>	_____	K. <b>59</b>	_____ + _____
D. <b><math>80 + 2</math></b>	_____	L. <b>35</b>	_____ + _____
E. <b><math>10 + 5</math></b>	_____	M. <b>91</b>	_____ + _____
F. <b><math>60 + 4</math></b>	_____	N. <b>42</b>	_____ + _____
G. <b><math>70 + 1</math></b>	_____	O. <b>88</b>	_____ + _____
H. <b><math>50 + 3</math></b>	_____	P. <b>26</b>	_____ + _____

## Fractions (Parts of a Whole): Halves, Thirds and Fourths

				
$\frac{1}{1}$	$\frac{1}{2}$	$\frac{2}{2}$	$\frac{1}{3}$	$\frac{2}{3}$

				
$\frac{3}{3}$	$\frac{1}{4}$	$\frac{2}{4}$	$\frac{3}{4}$	$\frac{4}{4}$

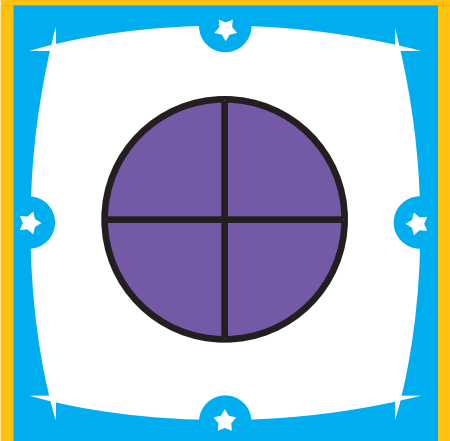
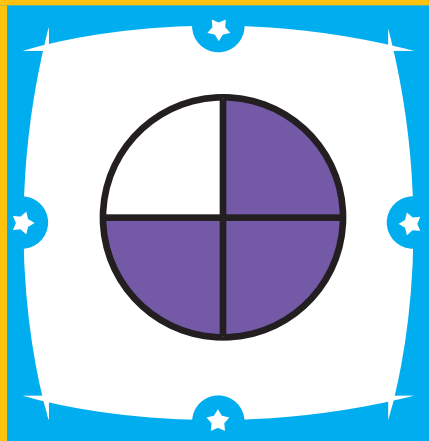
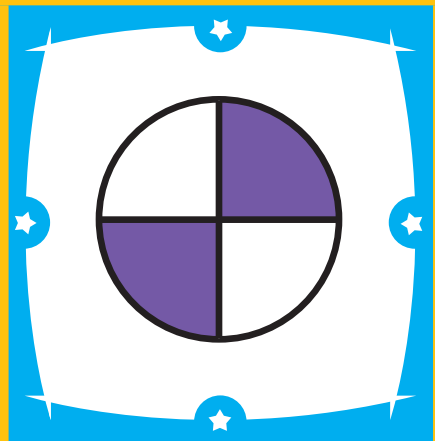




$$\frac{2}{3}$$

$$\frac{3}{3}$$

$$\frac{1}{4}$$



$$\frac{2}{4}$$

$$\frac{3}{4}$$

$$\frac{4}{4}$$