Research Based Approach

Build Number Sense

A Strategic Approach to Addition Fact Fluency

Ten Buddies
Student Practice Pages

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

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Components

I. Quick Start Guide
II. Ten Buddy Song
III. PowerPoints
IV. Student Practice Pages
V. Games
VI. Flash Cards

 Name_____ Lesson 1-A #_____

Part A: Fill in the missing ten buddy.

6 + ___ = 10	___ + 3 = 10	9 + ___ = 10	___ + 6 = 10	1 + ___ = 10
8 + ___ = 10	9 + ___ = 10	2 + ___ = 10	___ + 5 = 10	3 + ___ = 10

Part B: Write the sums.

8 + 8	7 + 7	2 + 8	10 + 0	2 + 4
9 + 1	10 + 9	3 + 2	6 + 4	3 + 7
2 + 6	3 + 7	5 + 5	3 + 3	2 + 8

Name_____ Lesson 1-B #_____

6

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Part A: Fill in the missing ten buddy.

6 + ___ = 10	___ + 3 = 10	9 + ___ = 10	___ + 6 = 10	1 + ___ = 10
8 + ___ = 10	9 + ___ = 10	2 + ___ = 10	___ + 5 = 10	3 + ___ = 10

Part B: Write the sums.

P: Write th

2 + 8	2 + 4	7 + 7	10 + 4	8 + 8
3 + 2	3 + 7	10 + 1	6 + 4	9 + 1
9 + 9	2 + 8	3 + 7	6 + 6	2 + 6

7 Name_____ Lesson 2-A #_____

Part A: Fill in the missing ten buddy.

1 + ___ = 10	___ + 6 = 10	6 + ___ = 10	9 + ___ = 10	___ + 3 = 10
3 + ___ = 10	___ + 5 = 10	8 + ___ = 10	2 + ___ = 10	9 + ___ = 10

Part B: Write the sums.

4 + 6 =	7 + 7 =	2 + 9 =	10 + 5 =	8 + 2 =
3 + 7 =	10 + 8 =	5 + 5 =	6 + 4 =	1 + 9 =
2 + 8 =	7 + 3 =	4 + 4 =	3 + 7 =	2 + 7 =

Name_____ Lesson 2-B #_____

8

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Part A: Fill in the missing ten buddy.

9 + ___ = 10	___ + 6 = 10	1 + ___ = 10	6 + ___ = 10	___ + ___ = 10
2 + ___ = 10	___ + 5 = 10	3 + ___ = 10	8 + ___ = 10	9 + ___ = 10

Part B: Write the sums.

2 +4	10 + 3	8 +8	2 + 8	7 +7
3 +7	6 + 4	9 +1	3 +2	10 + 4
2 +8	3 + 3	6 + 6	5 + 5	3 + 7

 Name_____ Lesson 3-A #_____

Part A: Fill in the missing ten buddy.

	6	1	9	
+ 3	+ ___	+ ___	+ ___	+ 6
10	10	10	10	10
9	8	3	2	
+ ___	+ ___	+ ___	+ ___	+ 5
10	10	10	10	10

Part B: Write the sums.

10	9	7	4	8
+ 5	+ 9	+7	+6	+2
6	9	10	3	1
+ 4	+2	+ 8	+7	+9
3	5	7	2	1
+ 7	+ 5	+ 3	+8	+ 7

Name_____ Lesson 3-B #_____

10

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Part A: Fill in the missing ten buddy.

9 + ___ = 10	___ + 6 = 10	1 + ___ = 10	6 + ___ = 10	___ + 3 = 10
2 + ___ = 10	___ + 5 = 10	3 + ___ = 10	8 + ___ = 10	9 + ___ = 10

Part B: Write the sums.

8 +8	10 + 8	7 +7	2 + 8	2 +4
9 +1	6 + 4	10 + 9	3 +2	7 +3
2 + 6	3 + 3	3 + 7	5 + 5	2 +8

 Name_____ Lesson 4-A #_____

Part A: Fill in the missing ten buddy.

	9	1	6	
+6	+ ___	+ ___	+ ___	+ 3
10	10	10	10	10
	2	3	8	9
+ 5	+ ___	+ ___	+ ___	+ ___
10	10	10	10	10

Part B: Write the sums.

10	4	7	8	9
+ 5	+6	+7	+2	+ 9
6	3	10	1	2
+ 4	+7	+ 8	+9	+5
3	2	7	2	5
+ 7	+8	+ 3	+ 7	+ 5

Name_____ Lesson 4-B #_____

12

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Part A: Fill in the missing ten buddy.

1 + ___ = 10	___ + 3 = 10	9 + ___ = 10	___ + 6 = 10	6 + ___ = 10
3 + ___ = 10	9 + ___ = 10	2 + ___ = 10	___ + 5 = 10	8 + ___ = 10

Part B: Write the sums.

2 + 8	2 + 4	7 + 7	10 + 3	8 + 8
9 + 9	3 + 7	10 + 9	6 + 4	9 + 1
5 + 5	2 + 8	3 + 7	3 + 3	1 + 6

 Name_____ Lesson 5-A #_____

Part A: Fill in the missing ten buddy.

6 + ___ = 10	___ + 6 = 10	1 + ___ = 10	___ + 3 = 10	9 + ___ = 10
8 + ___ = 10	___ + 5 = 10	3 + ___ = 10	9 + ___ = 10	2 + ___ = 10

Part B: Write the sums.

7 +7	4 +6	9 + 9	8 +2	10 + 1
10 + 8	3 +7	7 +2	9 +1	6 + 4
7 + 3	2 +8	5 + 5	2 + 6	3 + 7

Name_____ Lesson 5-B #_____

14

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Part A: Fill in the missing ten buddy.

6 + ___ = 10	___ + 6 = 10	1 + ___ = 10	___ + 3 = 10	9 + ___ = 10
8 + ___ = 10	___ + 5 = 10	3 + ___ = 10	9 + ___ = 10	2 + ___ = 10

Part B: Write the sums.

10 + 6	2 + 4	2 + 8	8 + 8	7 + 7
6 + 4	3 + 7	3 + 2	9 + 1	10 + 2
9 + 9	2 + 8	5 + 5	2 + 6	3 + 7

 Name_____ Lesson 6-A #_____

Write the sums.

6 +4	6 +6	1 +1	7 + 3	9 +9
8 +8	5 + 5	7 + 7	9 +1	2 + 8
7 +7	4 +6	9 + 9	8 +2	10 + 4
10 + 8	3 +7	2 +7	9 +1	2 + 6
9 + 9	8 +2	5 + 5	2 + 6	3 + 7

 Name_____ Lesson 6-B #_____

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Write the sums.

7 +7	4 +6	9 + 9	8 +2	10 + 4
10 + 8	3 +7	2 +7	9 +1	2 + 6
6 +4	6 +6	1 +1	7 + 3	9 +9
9 + 9	8 +2	5 + 5	2 + 6	3 + 7
8 +8	5 + 5	7 + 7	9 +1	2 + 8

 Name_____ Lesson 7-A #_____

Write the sums.

9 + 9	8 +2	5 + 5	2 + 6	3 + 7
8 +8	5 + 5	7 + 7	9 +1	2 + 8
6 +4	6 +6	1 +1	7 + 3	9 +9
10 + 8	3 +7	2 +7	9 +1	2 + 6
7 +7	4 +6	9 + 9	8 +2	10 + 4

 Name_____ Lesson 7-B #_____

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Write the sums.

7 +7	4 +6	9 + 9	8 +2	10 + 4
10 + 8	3 +7	2 +7	9 +1	2 + 6
6 +4	6 +6	1 +1	7 + 3	9 +9
9 + 9	8 +2	5 + 5	2 + 6	3 + 7
8 +8	5 + 5	7 + 7	9 +1	2 + 8

Name_____ Lesson 8-A #_____

Write the sums.

8 +8	5 + 5	7 + 7	9 +1	2 + 8
9 + 9	8 +2	5 + 5	2 + 6	3 + 7
7 +7	4 +6	9 + 9	8 +2	10 + 4
6 +4	6 +6	1 +1	7 + 3	9 +9
10 + 8	3 +7	2 +7	9 +1	2 + 6

20 Name_____ Lesson 8-B #_____

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Write the sums.

7 +7	4 +6	9 + 9	8 +2	10 + 4
9 + 9	8 +2	5 + 5	2 + 6	3 + 7
10 + 8	3 +7	2 +7	9 +1	2 + 6
8 +8	5 + 5	7 + 7	9 +1	2 + 8
6 +4	6 +6	1 +1	7 + 3	9 +9

Name_____ Lesson 9-A #_____

Write the sums.

10 + 8	3 +7	2 +7	9 +1	2 + 6
6 +4	6 +6	1 +1	7 + 3	9 +9
7 +7	4 +6	9 + 9	8 +2	10 + 4
8 +8	5 + 5	7 + 7	9 +1	2 + 8
9 + 9	8 +2	5 + 5	2 + 6	3 + 7

Name_____ Lesson 9-B #_____

1. Read the answers to someone.
2. Write the answers.
3. Have someone check your paper. Paper corrected by _____

Write the sums.

7 +7	4 +6	9 + 9	8 +2	10 + 4
9 + 9	8 +2	5 + 5	2 + 6	3 + 7
10 + 8	3 +7	2 +7	9 +1	2 + 6
8 +8	5 + 5	7 + 7	9 +1	2 + 8
6 +4	6 +6	1 +1	7 + 3	9 +9

Assessment A

Name_____ #_____

Write the sums.

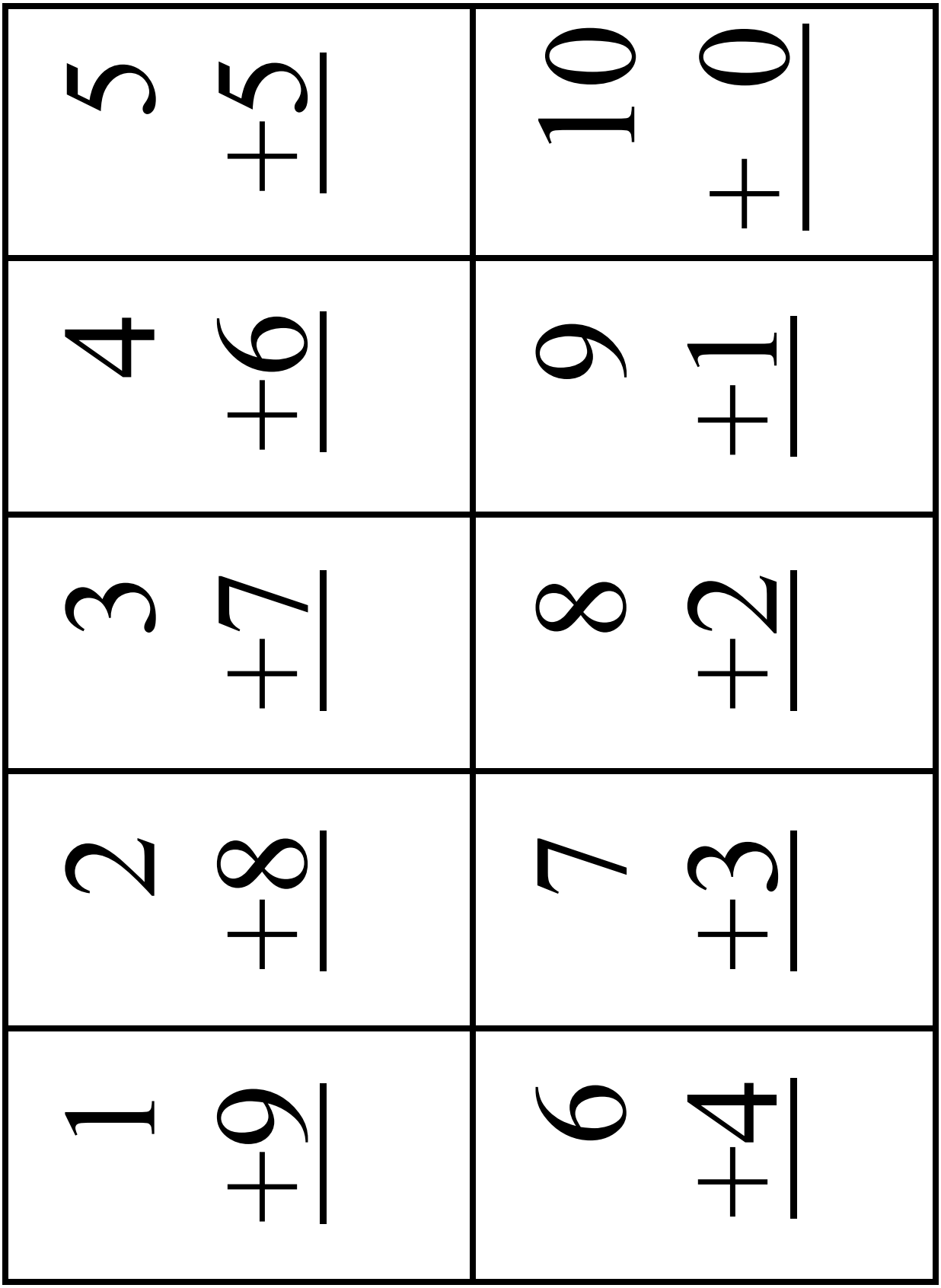
6 +4	6 +6	1 +1	7 + 3	9 +9
10 + 8	3 +7	2 +7	9 +1	2 + 6
8 +8	5 + 5	7 + 7	9 +1	2 + 8
7 +7	4 +6	9 + 9	8 +2	10 + 4
9 + 9	8 +2	5 + 5	2 + 6	3 + 7

Assessment B

Name_____ #_____

Write the sums.

9 + 9	8 +2	5 + 5	2 + 6	3 + 7
7 +7	4 +6	9 + 9	8 +2	10 + 4
8 +8	5 + 5	7 + 7	9 +1	2 + 8
6 +4	6 +6	1 +1	7 + 3	9 +9
10 + 8	3 +7	2 +7	9 +1	2 + 6


5 +5
10 +0
4 +6
9 +1
3 +7
8 +2
2 +8
7 +3
1 +9
6 +4

4+6=	8+2=
6+4=	1+9=
3+7=	9+1=
7+3=	5+5=
2+8=	10+0=

Games & Activities

Activity #1 **Shake-Drop-Write** (10 beans) *(concrete and symbolic)*

- Give each student ten beans. **(See note below on how to create these yourself)**
- Students shake the beans and then drop them on the desk.
  I require students to say the red beans first as they write a number sentence which represent the beans they dropped. If 2 beans landed on red and 8 landed on white the student would write the number sentence 2+8=10.
- Students shake, drop, and write number sentences for the five minutes. If they get a repeat combination, all the better! They should write that number sentence.
- Time the students for five minutes.
- At the end of the 5 minutes have them count how many number sentences they wrote.

I would recommend doing this for 5 minutes every day for a week. I have found that as each day progresses, students are able to write more number sentences than the day before. At first, they were counting the red beans and then the white beans then writing their number sentence. As they practiced, they started looking at one set and using that information and their past "shake, drop, and write" knowledge to infer the second number. Students love this activity. They love trying to better their score.

This activity is powerful because it gives students concrete experience with numbers with every "drop" as well as symbolic experience with every number sentence they write.

Note: My favorite activity to help students internalize their ten buddies makes use of a "Math Their Way" manipulative. Simply lay a bag of lima bean seeds on several layers of newspapers. When one sprays the beans (I love red shiny spray paint), the result is counters with one red side and one white side.

Activity #2 **Tic-Tac-Toe Ten** *(symbolic)*

Draw a Tic-Tac-Toe board on dry erase board or scrap paper

Number cards 1-9 or 10-sided dice.

Write digits 1-9 on the board. Draw a card or roll the dice. Mark out the "ten buddy". Ie. Roll 2 mark out 8. Draw 6 mark out 4.

Winner is the one who marks 3, horizontally vertically, or diagonally.

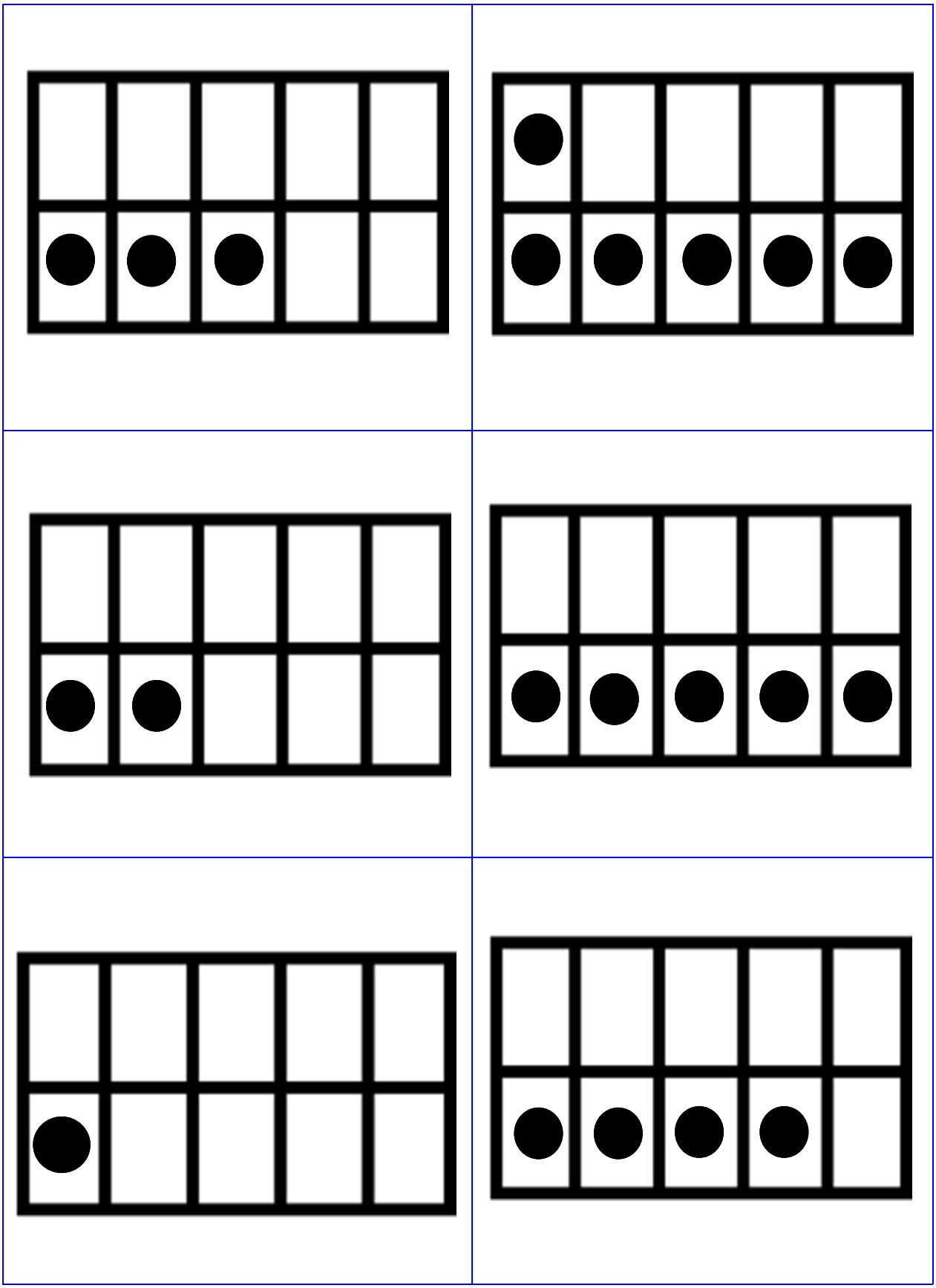
You can also give variety to the game by announcing that the winner will be the first to get four corners.

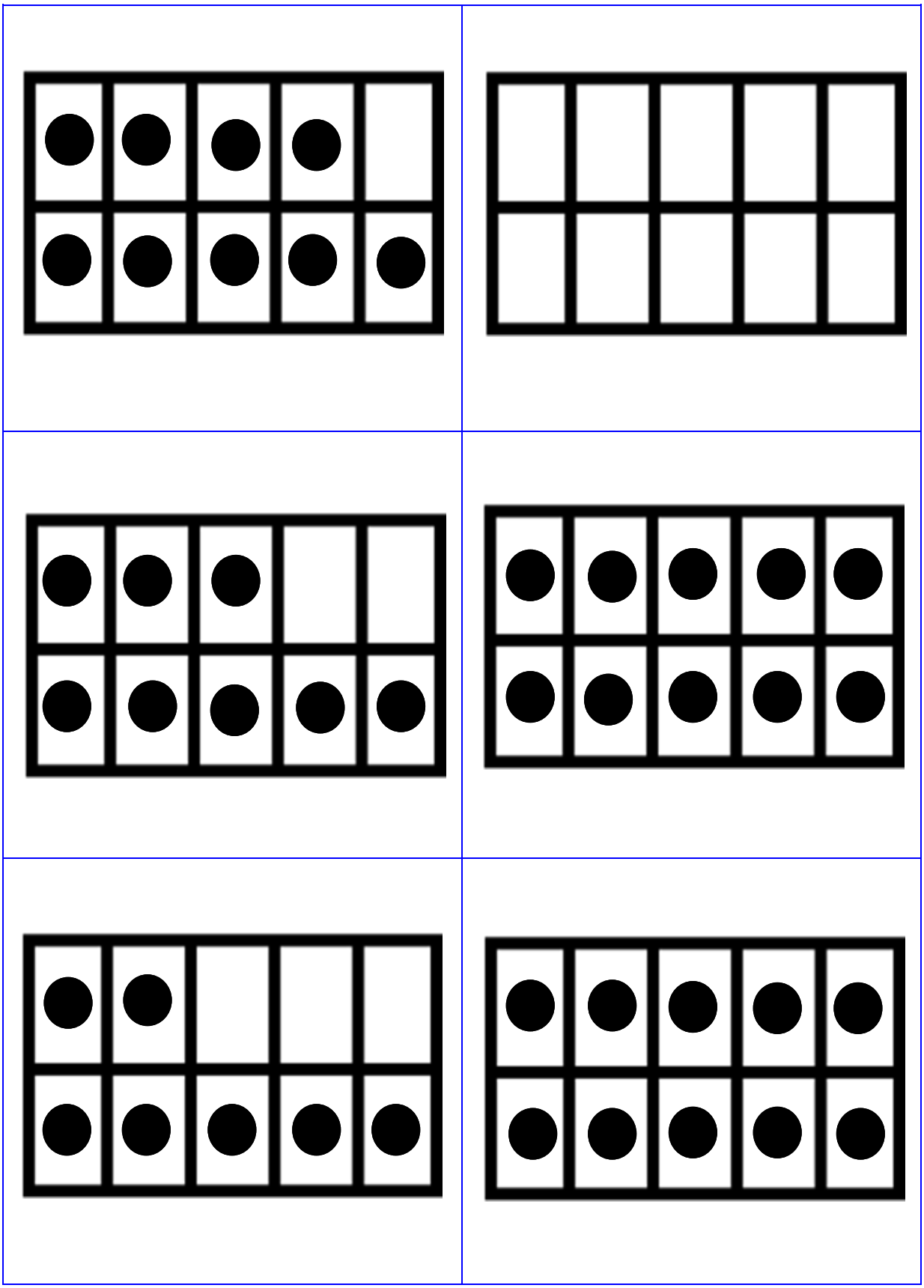
This is a fast and powerful practice for internalizing their "ten buddies" on a symbolic level.

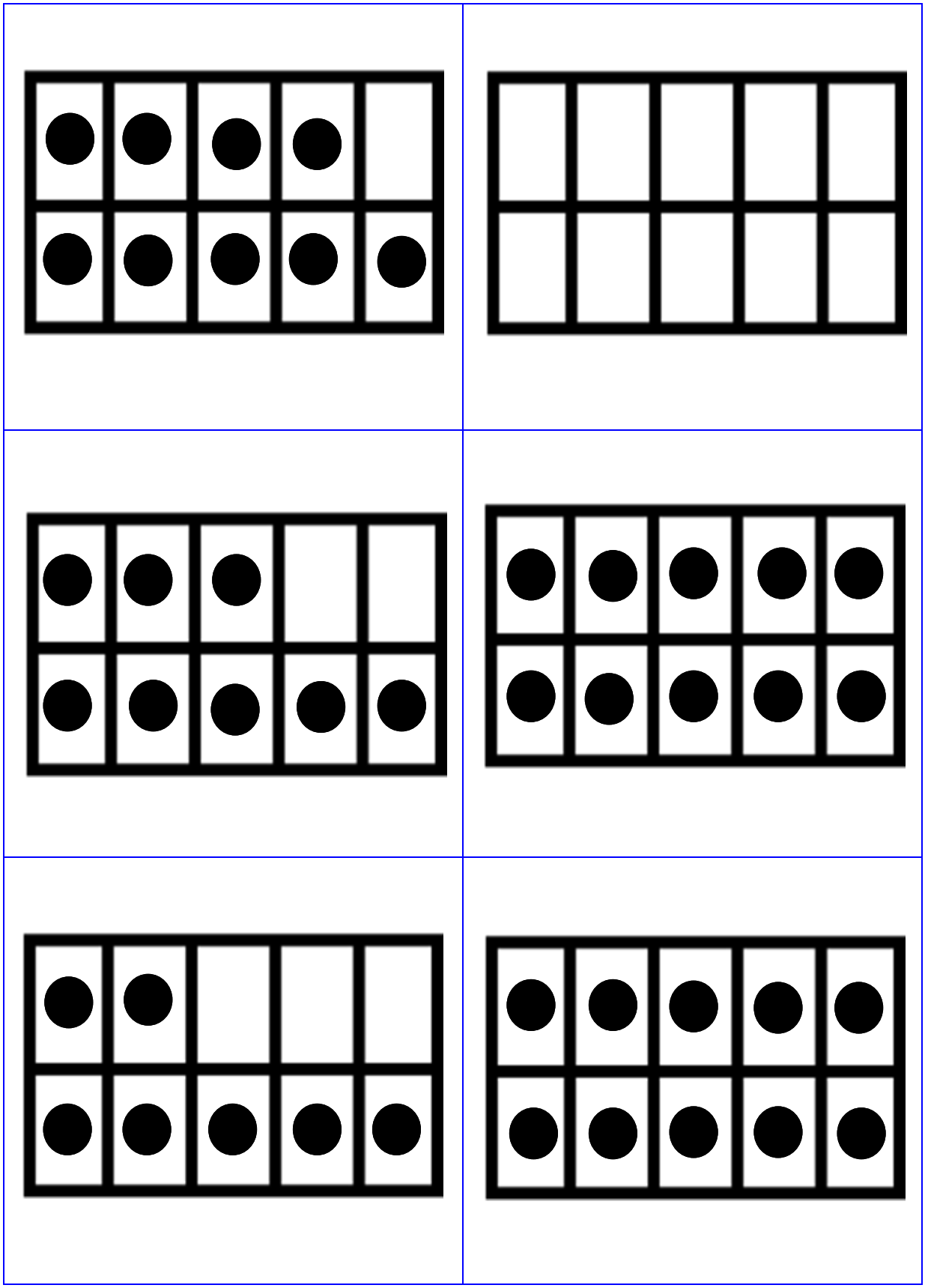
Games & Activities

Activity #3 **Call the Buddy**
Pair students, with a set of ten frame cards on page 30 & 31.
Students shuffle cards and each throw down a ten frame card.
The first student to call out the correct ten buddy, takes both cards.
The winner is the child with the most cards.
(If you have 10 frame decks just use those.)

1	6
2	7
3	8
4	9
5	5







Notes: