IMKH California

GRADE 2

Teacher Resource Copy Masters

UNITS 1-2

Illustrative Mathematics LEARN MATH FOR LIFE | Kendall Hunt

Book 1
Certified by Illustrative Mathematics®

ISBN 9798385167623

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20240302

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GRADE 2

UNIT

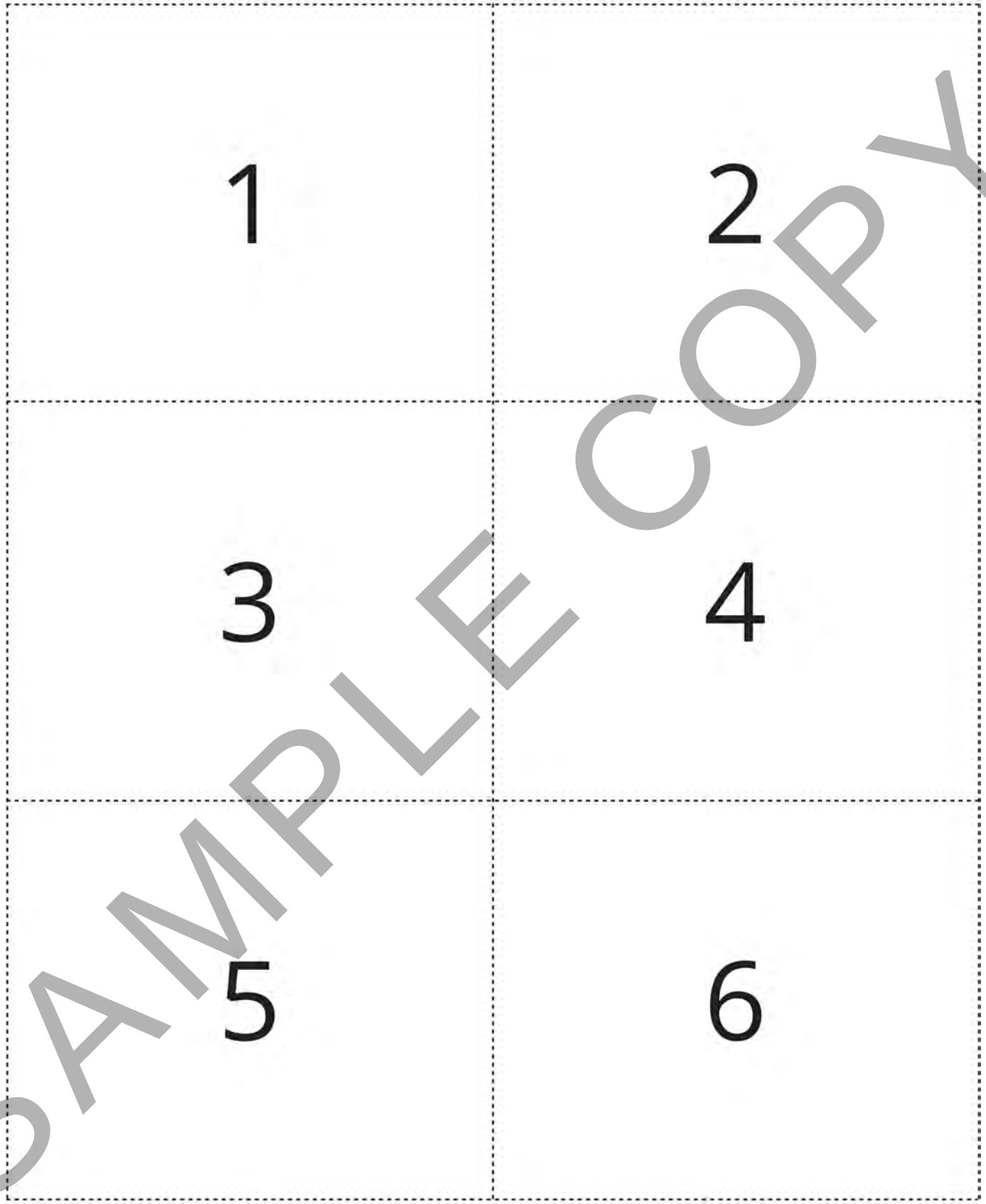
1

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade2.1.1.1	Number Cards 0–10	2	no	yes	yes	no	yes	yes
Activity Grade2.1.2.1	What's Behind My Back Stage 3 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.3.1	What's Behind My Back Stage 4 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.4.1	How Close? Stage 1 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.5.1	How Close? Stage 3 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.6.1	Number Puzzles Digit Cards	14	no	yes	no	no	yes	yes
Activity Grade2.1.6.1	Number Puzzles Addition and Subtraction Stage 2 Gameboard	1	no	no	no	no	yes	yes
Activity Grade2.1.7.1	How Do We Get to School Pictures	1	yes	yes	no	no	no	no

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade2.1.10.1	Draw Picture Graphs Data Tables	6	no	yes	no	no	no	no
Activity Grade2.1.12.1	Sort and Display Stage 2 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.14.1	Party Time Handout	1	no	no	no	no	no	no
Activity Grade2.1.15.2	Card Sort At the Beach Cards	2	no	yes	no	no	no	no
Activity Grade2.1.17.1	Counting Collections Stage 3 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.1.17.1	10-frame	1	no	no	yes	no	yes	yes



7	8
9	1
2	3

4	5
6	7
8	9

0	0
10	10

Directions:

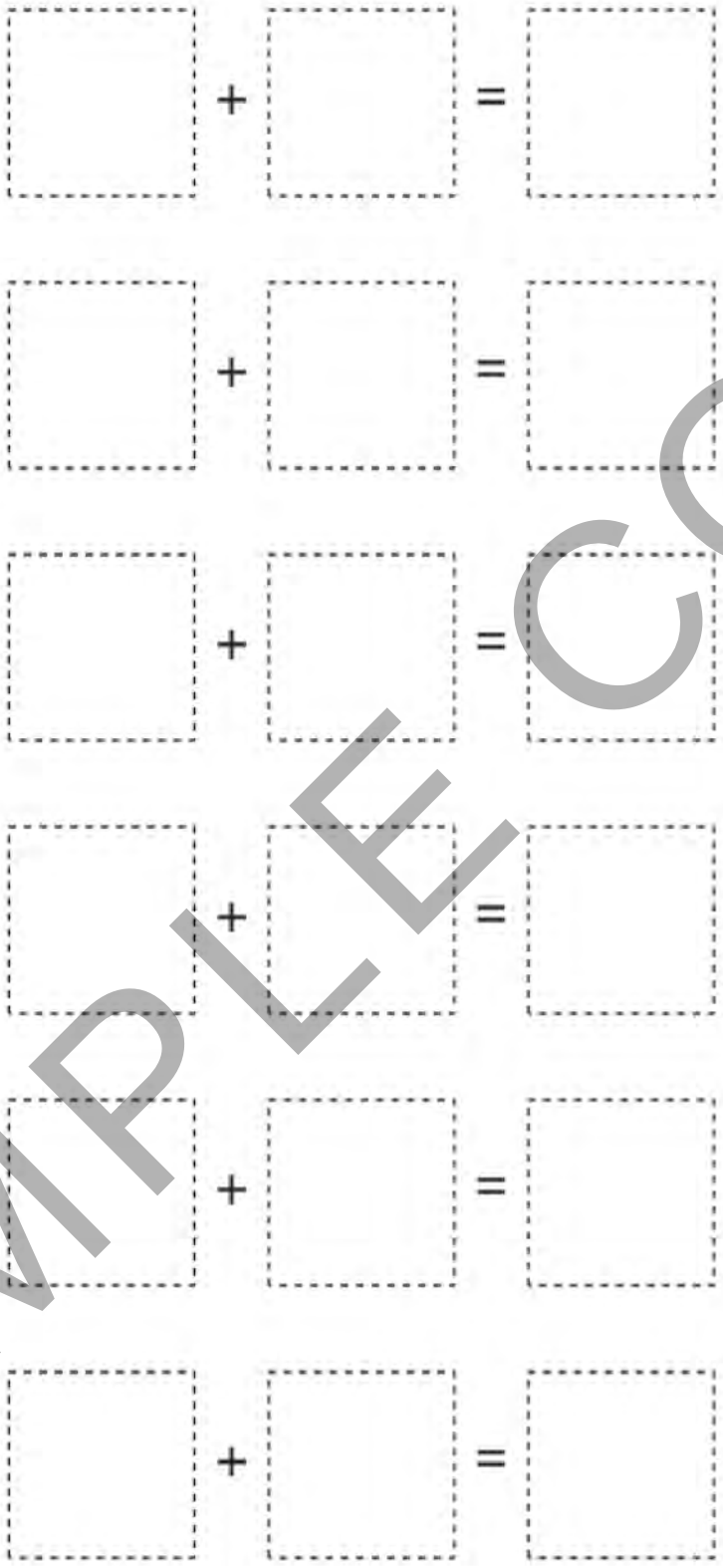
- Start with a tower of 10 cubes.
- Partner A: Put the tower behind your back. Break off some cubes. Show your partner the rest of the tower.
- Partner B: Record an addition equation with a blank to represent the number of hidden cubes.
- Partner A: Ask, "How many are behind my back? How do you know?"
- Partner B: Record the answer to complete the equation.
- Switch roles and repeat.

$\square + \square = \square$

$\square + \square = \square$

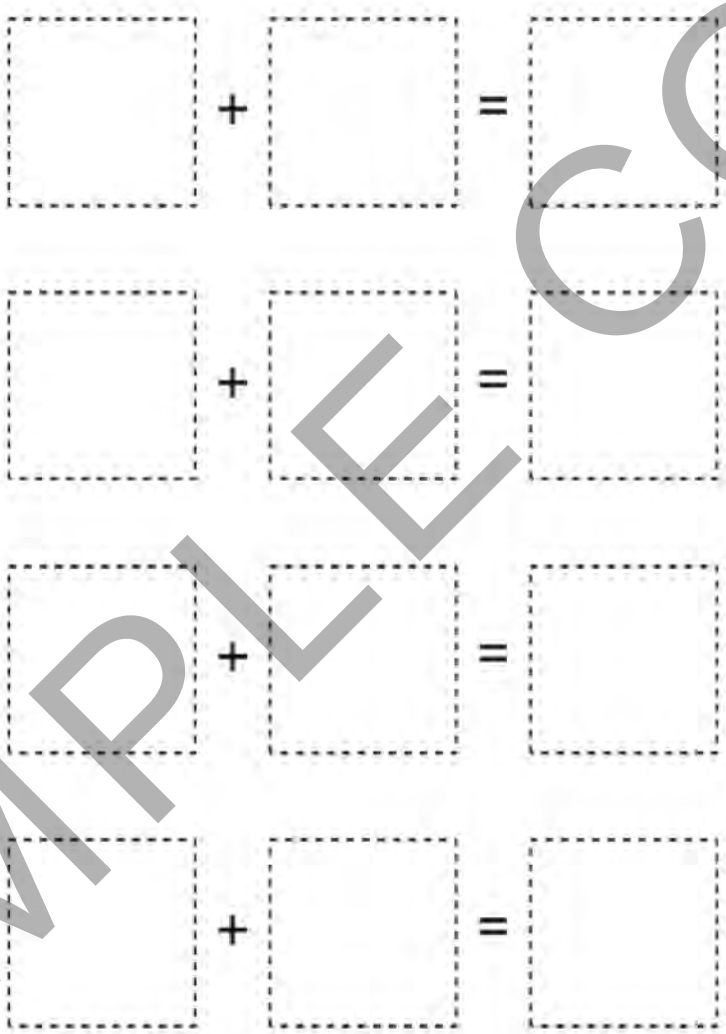
$\square + \square = \square$

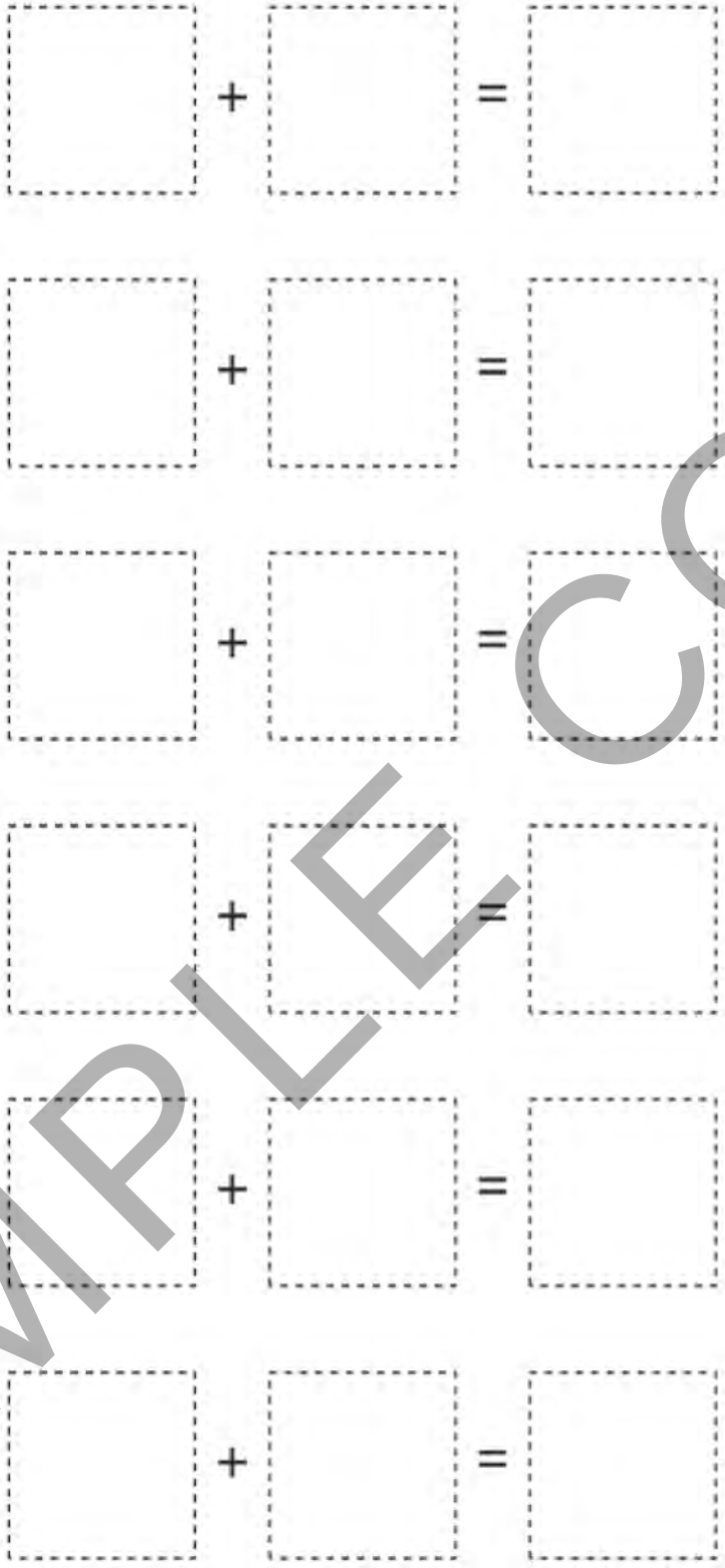
$\square + \square = \square$



Directions:

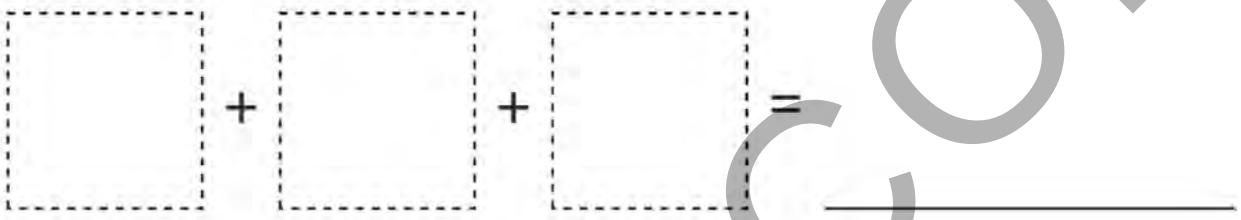
- Start with 2 towers of 10 cubes.
- Partner A: Put the towers behind your back. Break off some cubes. Show your partner the rest of the tower.
- Partner B: Record an addition equation with a blank to represent the cubes.
- Partner A: Ask "How many are behind my back? How do you know?"
- Switch roles and repeat.

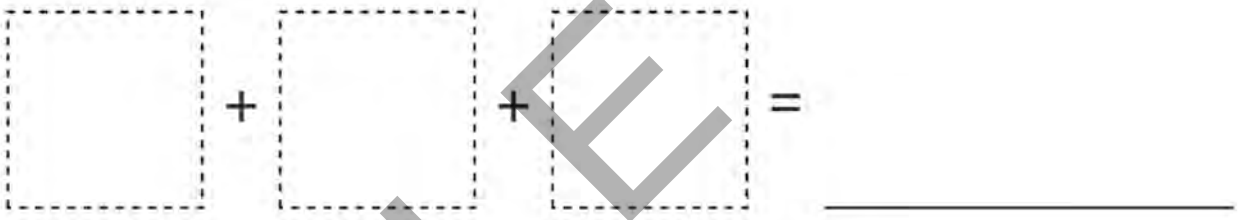


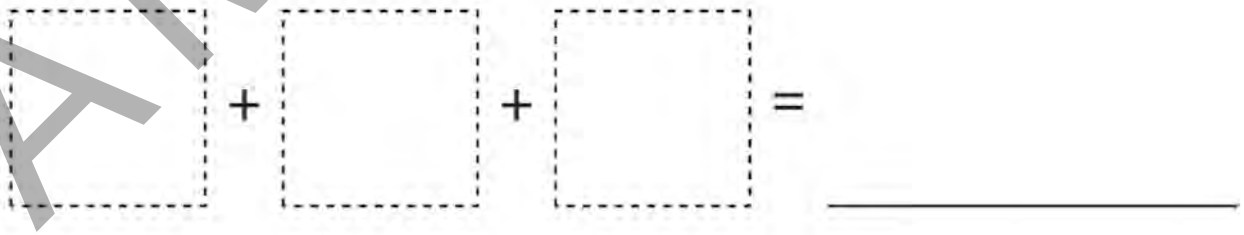


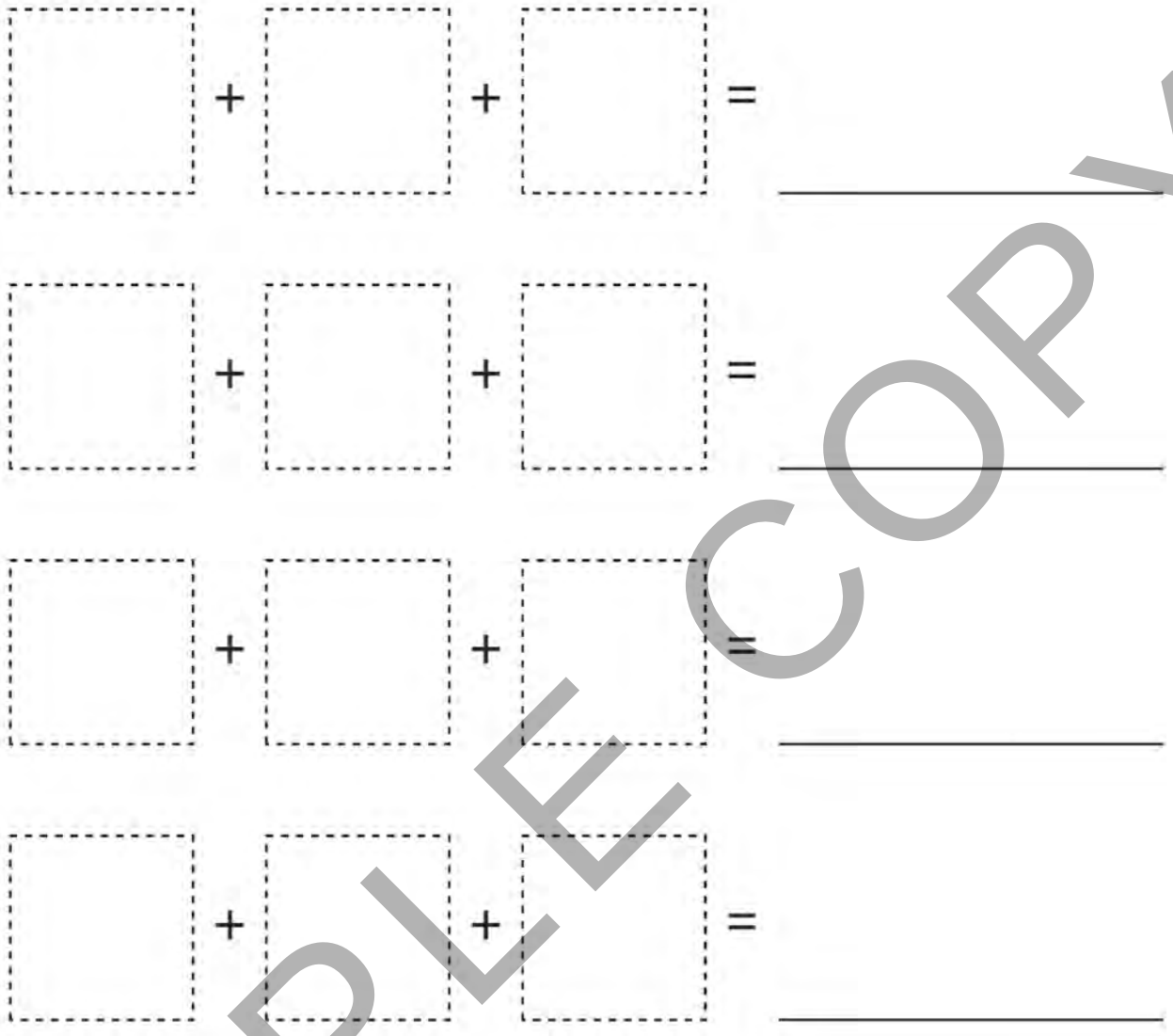
Directions:

- Remove the cards that show 10. Set them aside.
- Each partner:
  - Take 5 cards.
  - Choose 3 numbers.
  - Write an equation to show the sum of the 3 numbers.
  - Compare sums. The partner who is closer to 20 wins a point.
- Take 3 new cards. Start the next round.



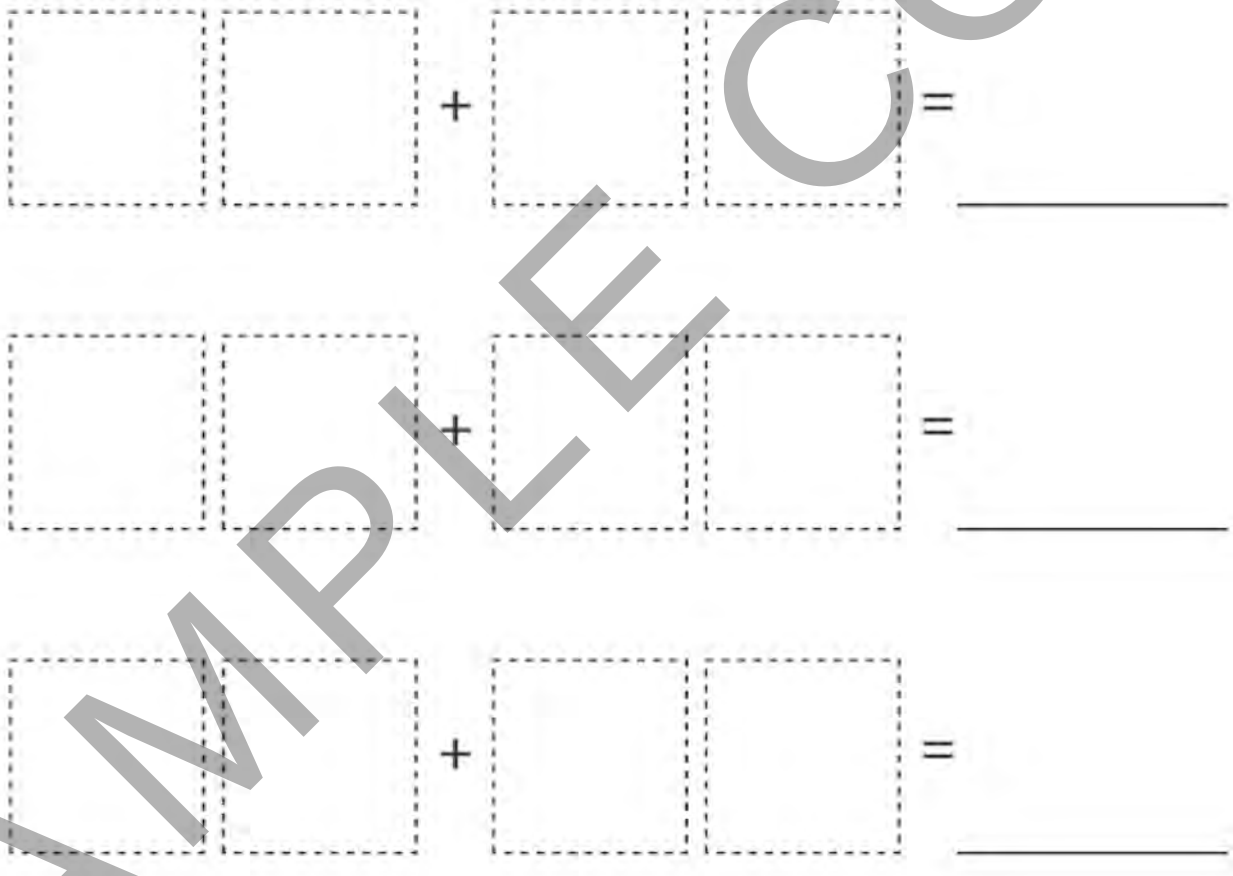


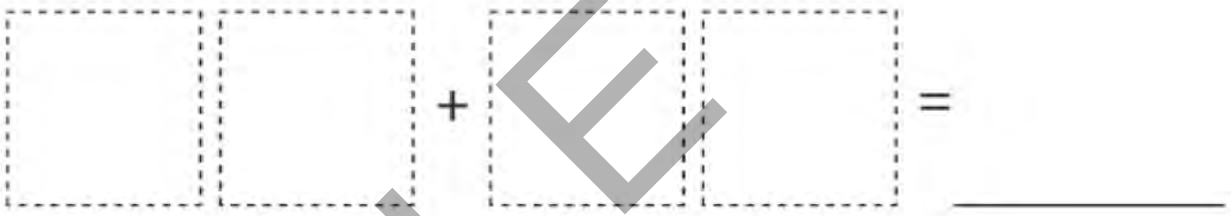


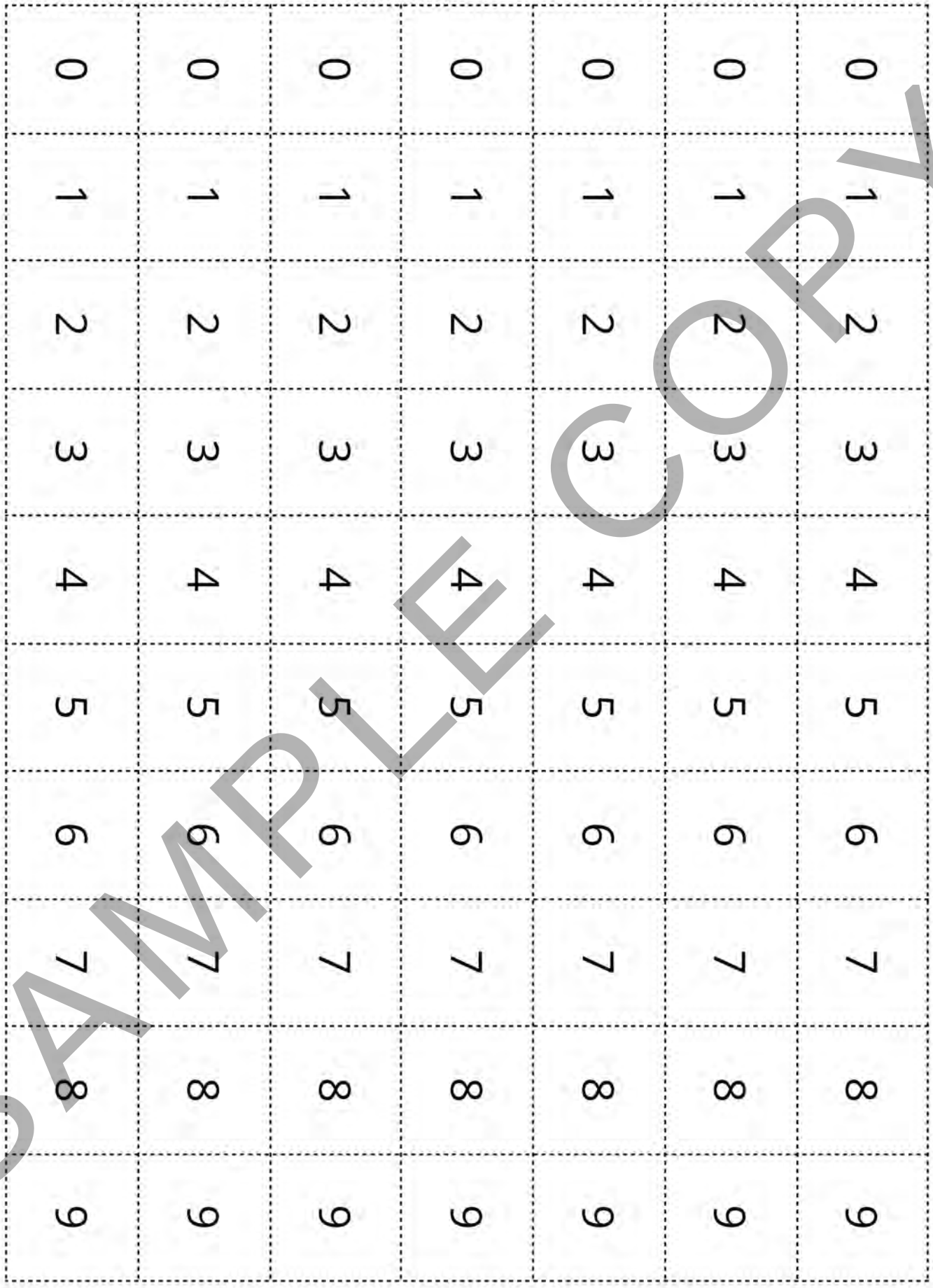


Directions:

- Remove the cards that show 10. Set them aside.
- Each partner:
  - Take 7 cards.
  - Choose 4 cards. Make 2 two-digit numbers.
  - Write an equation to show the sum of the numbers you made.
  - Compare sums with your partner. The partner that is closer to 100 wins a point.
- Take 4 new cards. Start the next round.






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

Puzzle 1

Place a digit card in each space to make the equations true. Each digit 0–9 can only be used once. Some cards will be left over.

11 = ☐ + ☐	11 = 1 ☐ - ☐	11 = ☐ - 8
11 = 1 ☐ + ☐	11 = 1 ☐ - 2	11 = 1 ☐ - 1

Puzzle 2

Place a digit card in each space to make the equations true. Each digit 0–9 can only be used once. Some cards will be left over.

$14 = 1 \square + \square$	$14 = \square + 7$
$14 = 8 + \square$	$14 = 1 \square - 4$
$14 = 1 \square - \square$	$14 = 1 \square - \square$

Puzzle 3

Place a digit card in each space to make the equations true. Each digit 0–9 can only be used once. Some cards will be left over.

17 = 1 ☐ + ☐	17 = 1 ☐ - ☐	
17 = 1 ☐ - ☐	17 = 1 ☐ + 1	
17 = 1 ☐ - 1	17 = 1 ☐ + 2	

Puzzle 4

Place a digit card in each space to make the equations true. Each digit 0–9 can only be used once.

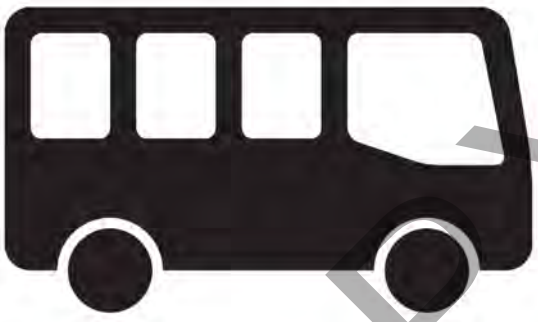
$18 = \square + \square$	$18 = \square + \square$	$18 = \square + \square$
$18 = \square - \square$	$18 = \square + 4$	$18 = \square - 1$

Puzzle 5

Place a digit card in each space to make the equations true. Each digit 0–9 can only be used once. Some cards will be left over.

19 = 1 +	19 = 1 +
19 = 1 + 3	19 = 1 + 6
19 = 1 -	19 = 1 + 1

train



bus

car

walk

Data Tables
Table 1

Favorite Sports

basketball	4
softball	3
gymnastics	5
soccer	11

Data Tables
Table 2

Favorite Subjects

science	6
writing	4
math	8
reading	5

Data Tables
Table 3

Favorite Colors

green	6
blue	9
orange	2
purple	4

Data Tables
Table 4

Coins in a Jar

quarters	4
nickels	10
dimes	5
pennies	4

Data Tables
Table 5

Vehicles on the Road

bus	4
truck	5
car	8
motorcycle	3

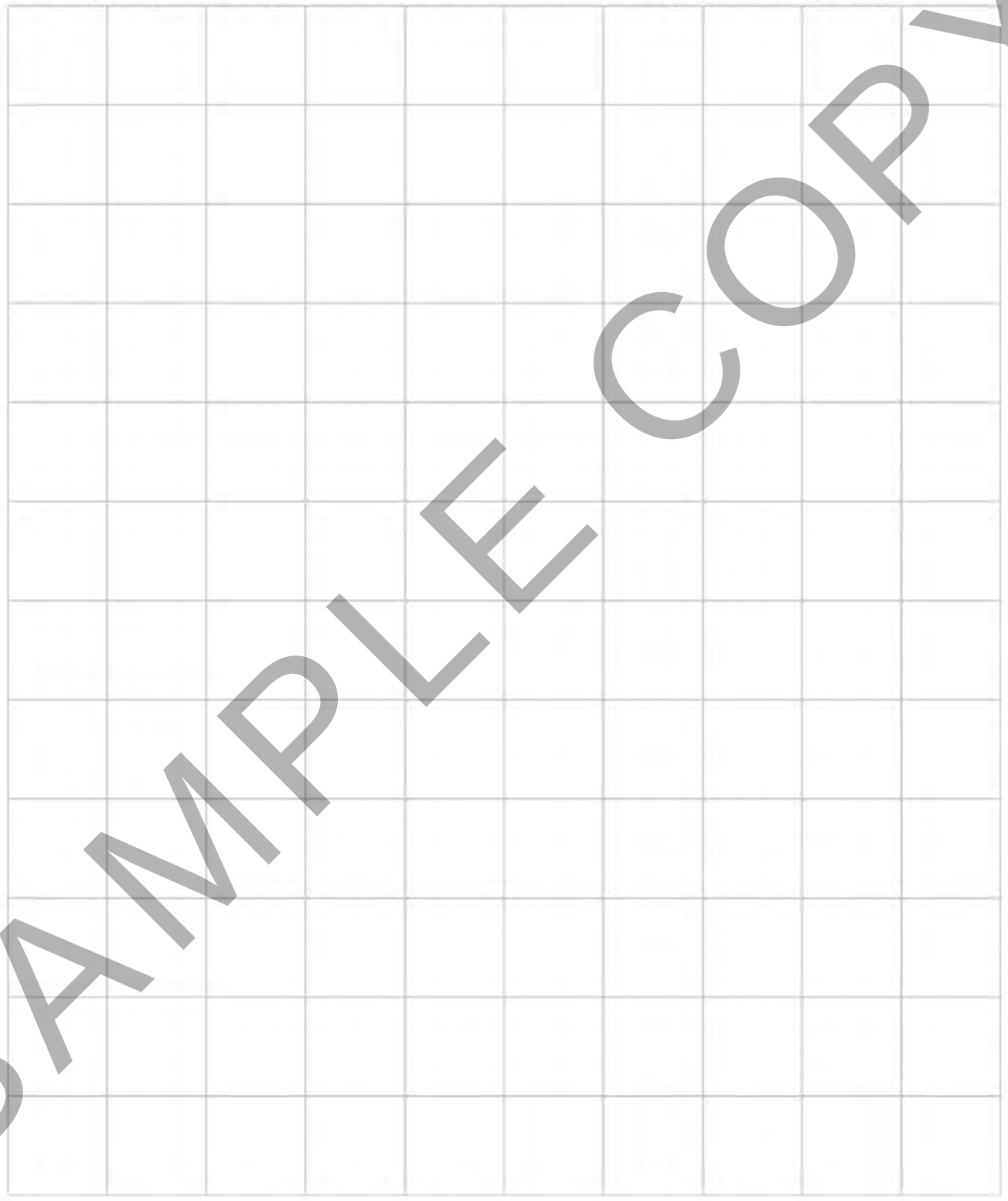
Data Tables
Table 6

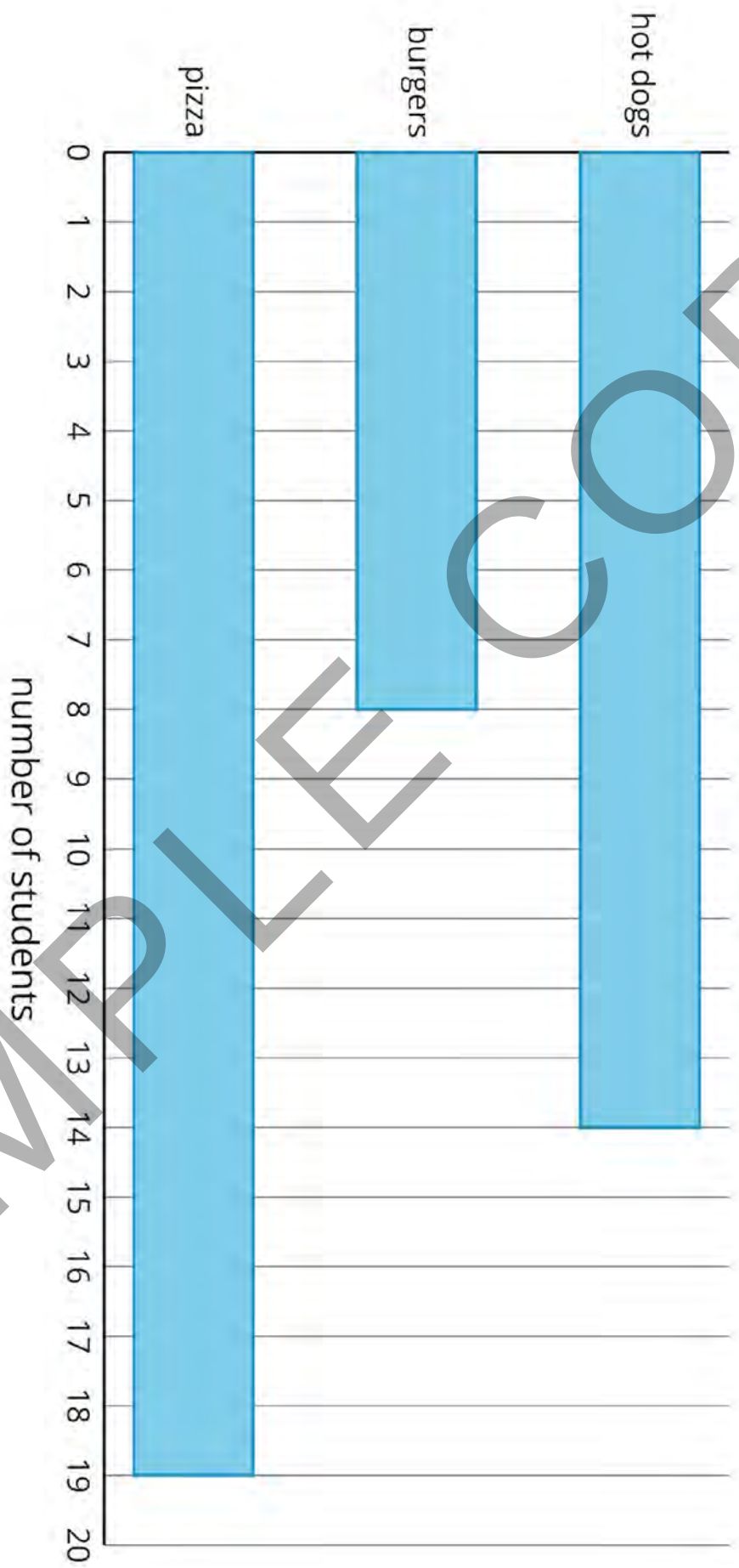
Recess Activities

swings	9
jump rope	7
basketball	4
tag	3

Directions:

- Sort your objects into 3 or 4 categories.
- Make a picture graph or bar graph to show how you sorted.
- Ask your partner 2 questions that can be answered using the data in your graph.




Party Time
hot dogs
burgers
pizza
number of students
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Card Sort: At the Beach
A

Lin finds 28 more shells than Diego.
Diego finds 32 shells.
How many shells does she find?

Card Sort: At the Beach
B

Lin counts 28 boats.
Diego counts 32 boats.
How many more boats does he count?

Card Sort: At the Beach
C

Lin sees 32 starfish.
Diego sees 28 fewer starfish than Lin.
How many starfish does he see?

Card Sort: At the Beach
D

Lin finds 40 fewer crabs than Diego.
Diego finds 57 crabs.
How many crabs does she find?

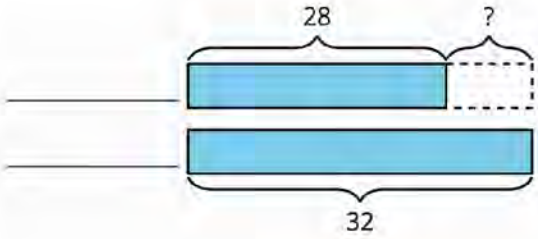
Card Sort: At the Beach
E

Lin counts 57 beach chairs.
She counts 40 more people than chairs.
How many people does she count?

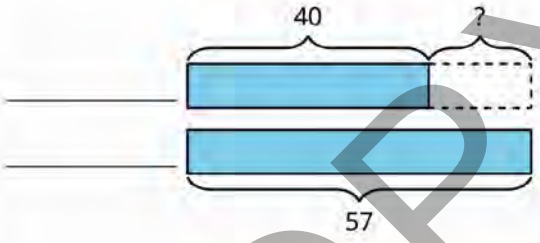
Card Sort: At the Beach
F

Diego sees 40 seagulls.
Lin sees 57 seagulls.
How many fewer seagulls does Diego see?

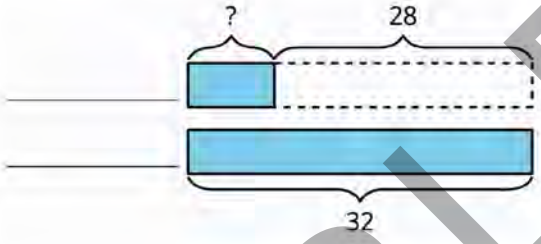
Card Sort: At the Beach
G



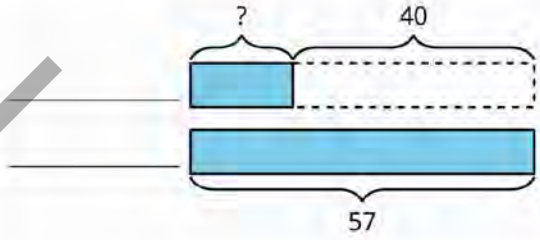
Card Sort: At the Beach
H



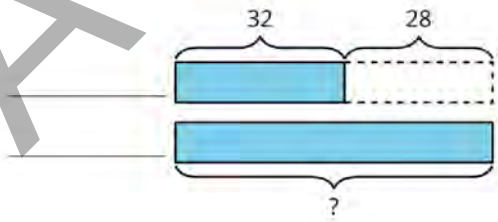
Card Sort: At the Beach
I



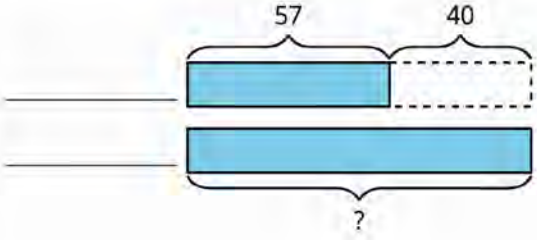
Card Sort: At the Beach
J



Card Sort: At the Beach
K



Card Sort: At the Beach
L



Card Sort: At the Beach
M

$32 - 28 = ?$

Card Sort: At the Beach
N

$57 - 40 = ?$

Card Sort: At the Beach
O

$28 + ? = 32$

Card Sort: At the Beach
P

$40 + ? = 57$

Card Sort: At the Beach
Q

$32 + 28 = ?$

Card Sort: At the Beach
R

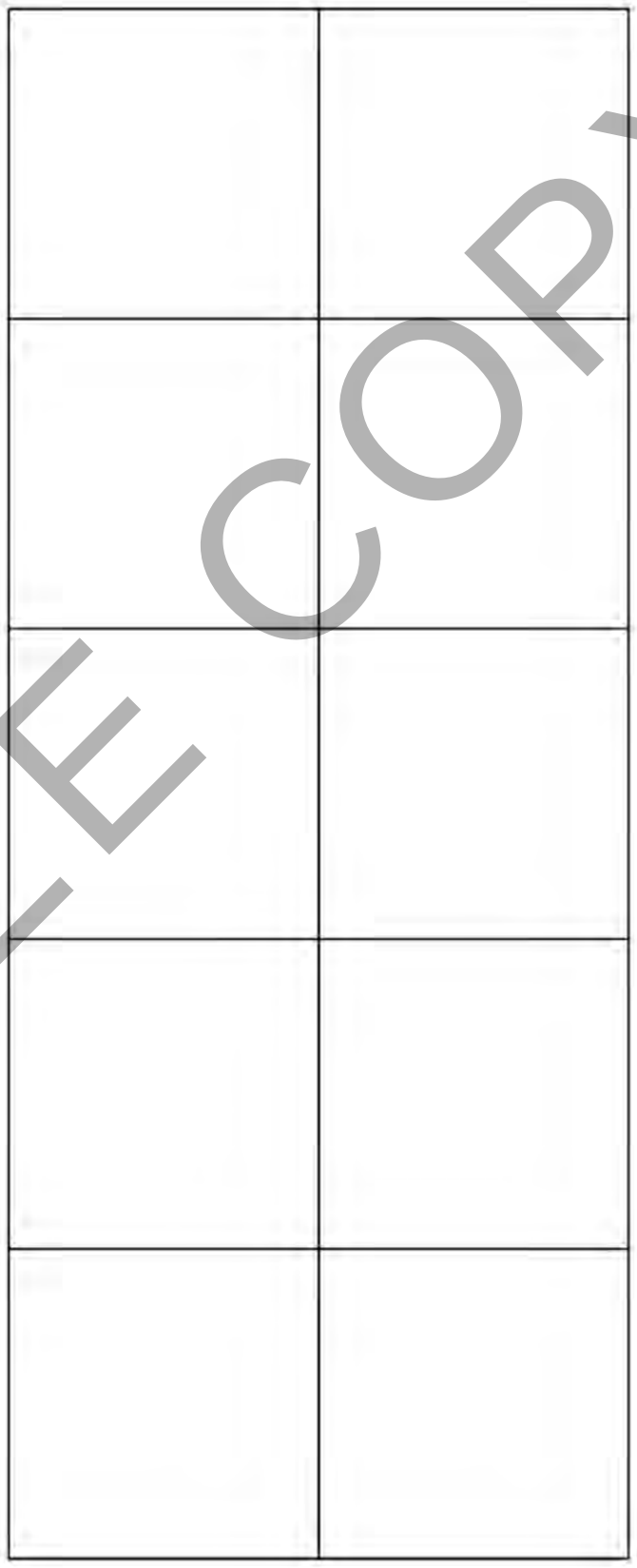
$57 + 40 = ?$

Directions:

1. Record an estimate that is:

too low	about right	too high

2. Count your collection. Show how you counted.



GRADE 2

UNIT

2

Teacher Resource Copy Masters

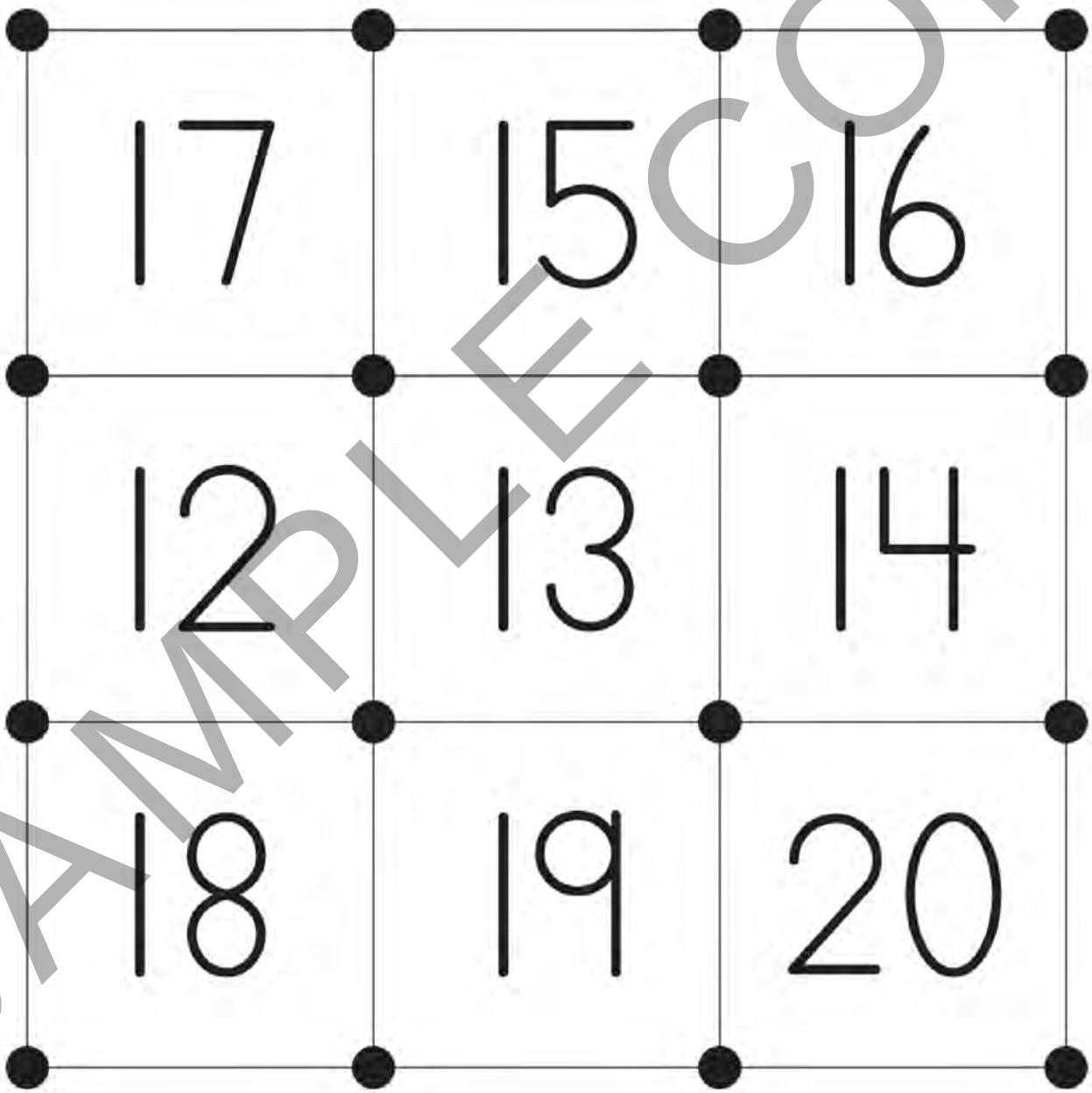
LESSON BLACKLINE MASTERS

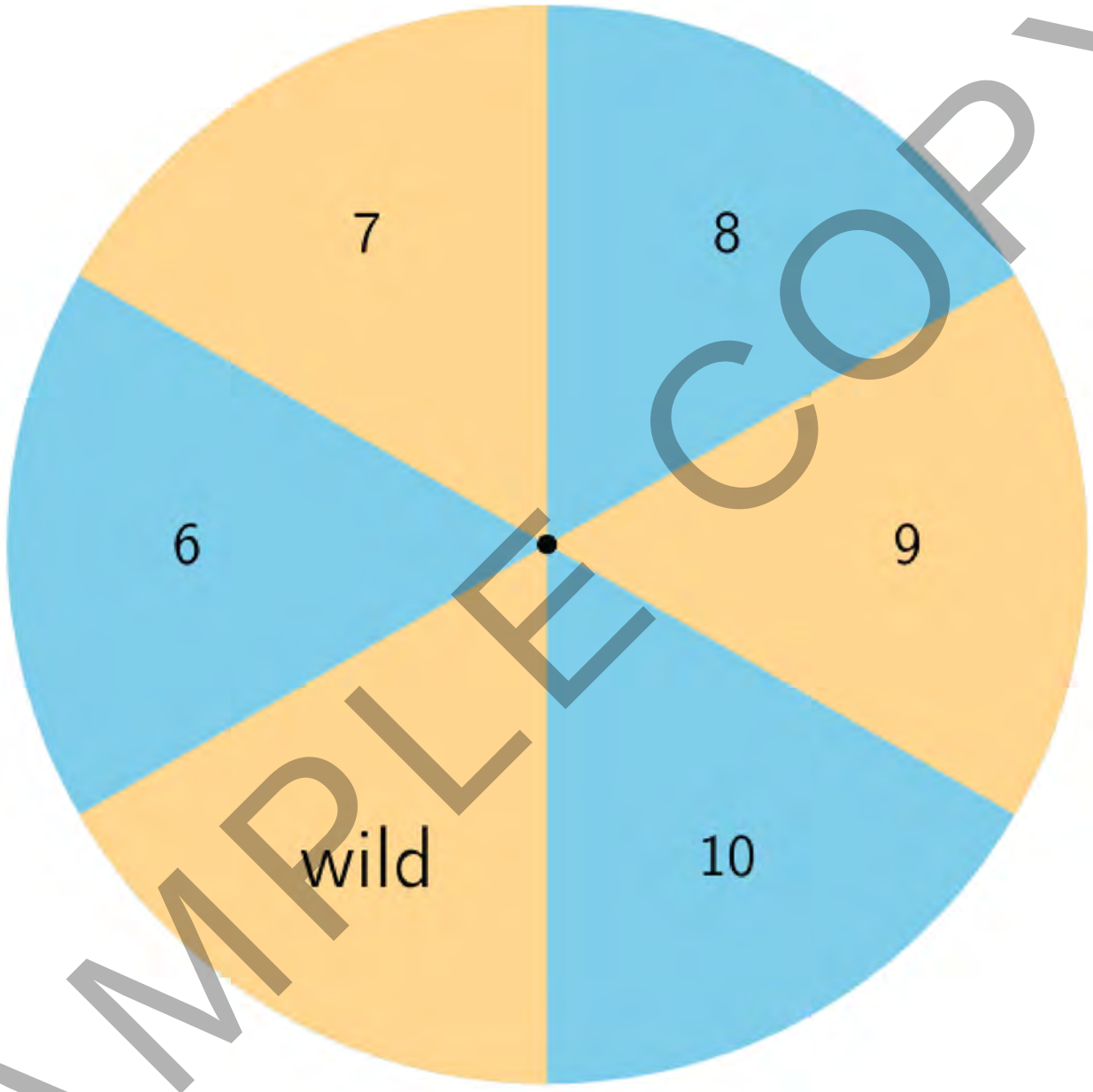
address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade2.2.4.1	Capture Squares Stage 3 Gameboard	2	yes	no	no	no	no	yes
Activity Grade2.2.4.1	Capture Squares Stage 3 Spinner	2	no	no	no	no	yes	yes
Activity Grade2.2.4.2	Five in a Row Addition and Subtraction Stage 6 Gameboards	2	no	no	no	no	yes	yes
Activity Grade2.2.6.2	Target Numbers Stage 4 Recording Sheet	1	yes	no	no	no	no	yes
Activity Grade2.2.6.2	Number Cards 0–10	2	no	yes	yes	no	yes	yes
Activity Grade2.2.7.2	Using Blocks to Take Away Cards	4	no	yes	no	no	no	no
Activity Grade2.2.9.1	Card Sort Sort and Find the Value Cards	2	no	yes	no	no	no	no
Activity Grade2.2.10.1	Target Numbers Stage 5 Recording Sheet	1	yes	no	no	no	no	yes

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade2.2.12.2	Card Sort Story Problems and Diagrams Cards	2	no	yes	no	no	no	no
Activity Grade2.2.13.1	Card Sort Story Problems and Equations Cards	2	no	yes	no	no	no	no
Activity Grade2.2.16.1	Math Stories Stage 5 Cards	2	no	yes	no	no	yes	yes
Activity Grade2.2.16.1	Math Stories Stage 5 Recording Sheet	1	yes	no	no	no	no	yes

Directions:

- On your turn:
  - Spin the spinner. Take 1 number card. Find the sum.
  - Choose a square on the gameboard that shows that number. Draw 1 line. Connect any 2 dots around the number.
  - If you can't draw a line, spin again. Then take a new card.
  - If you draw a line that finishes a square around a number, shade in that box.
- Take turns. The first player to shade in 3 boxes wins.





Directions: (2-digit plus 2-digit)

- Partner A: Put a paper clip on 1 number in each gray row. Cover the sum of the 2 numbers with a counter.
- Partner B: Move 1 of the paper clips to another number in the same row. Add the numbers. Cover the sum with a counter.
- Take turns. If a partner finds a sum that is already covered, they move the same paper clip to a different number. The game ends when a partner fills the gameboard or places 5 counters in a row—across, up and down, or diagonal.

81	91	54	46	90
84	83	35	82	53
60	92	99	73	51
73	42	44	53	92
100	75	82	61	64

16	27	25	34	35
65	19	57	26	48

Directions: (1-digit plus 2-digit)

- Partner A: Put a paper clip on 1 number in each gray row. Cover the sum of the 2 numbers with a counter.
- Partner B: Move 1 of the paper clips to another number in the same row. Add the numbers. Cover the sum with a counter.
- Take turns. If a partner finds a sum that is already covered, they move the same paper clip to a different number. The game ends when a partner gets 5 counters in a row or the gameboard is filled. Counters can be across, up and down, or diagonal.

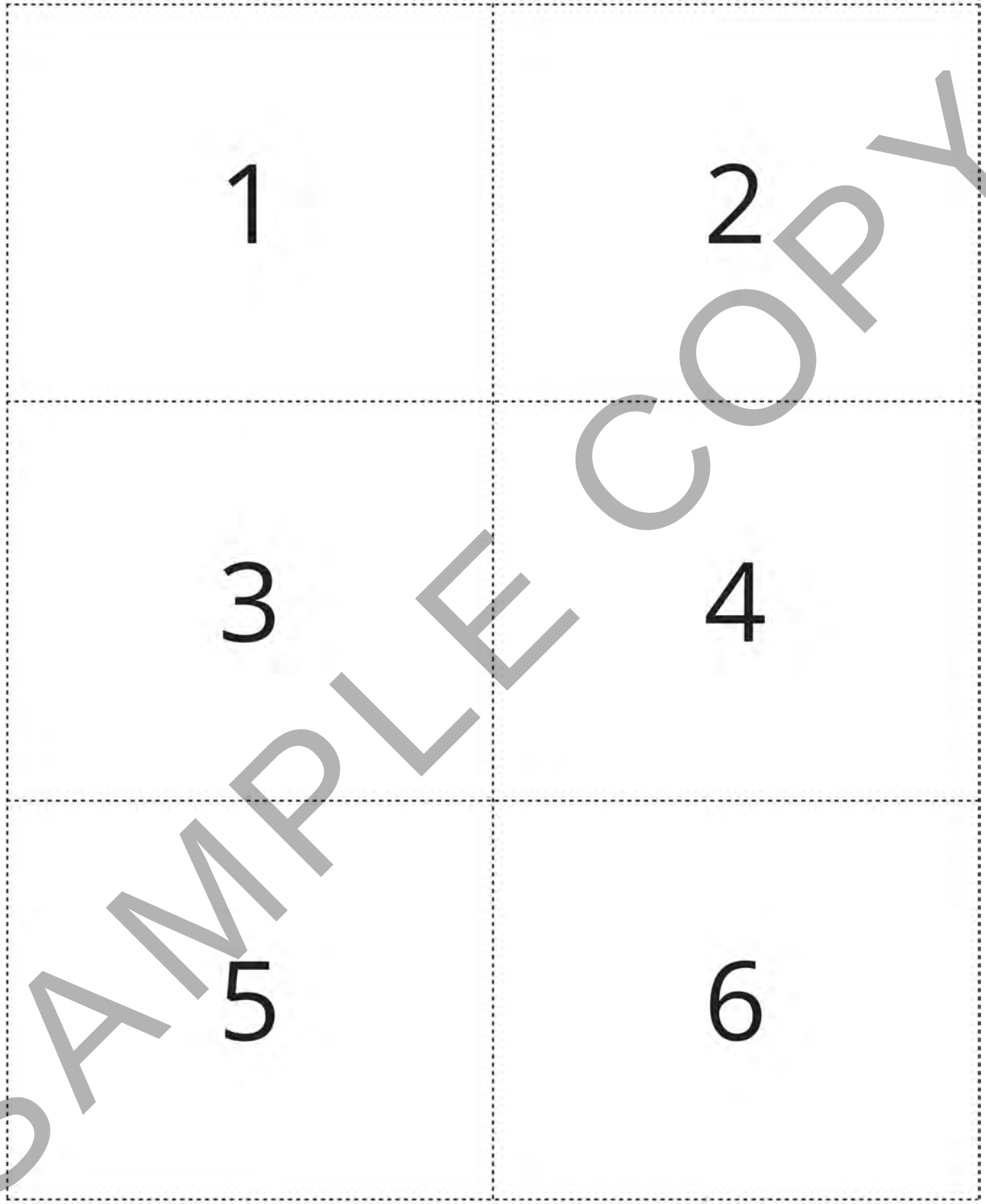
75	64	24	26	63
65	25	22	31	55
58	30	67	32	66
72	56	54	34	71
74	23	33	73	57

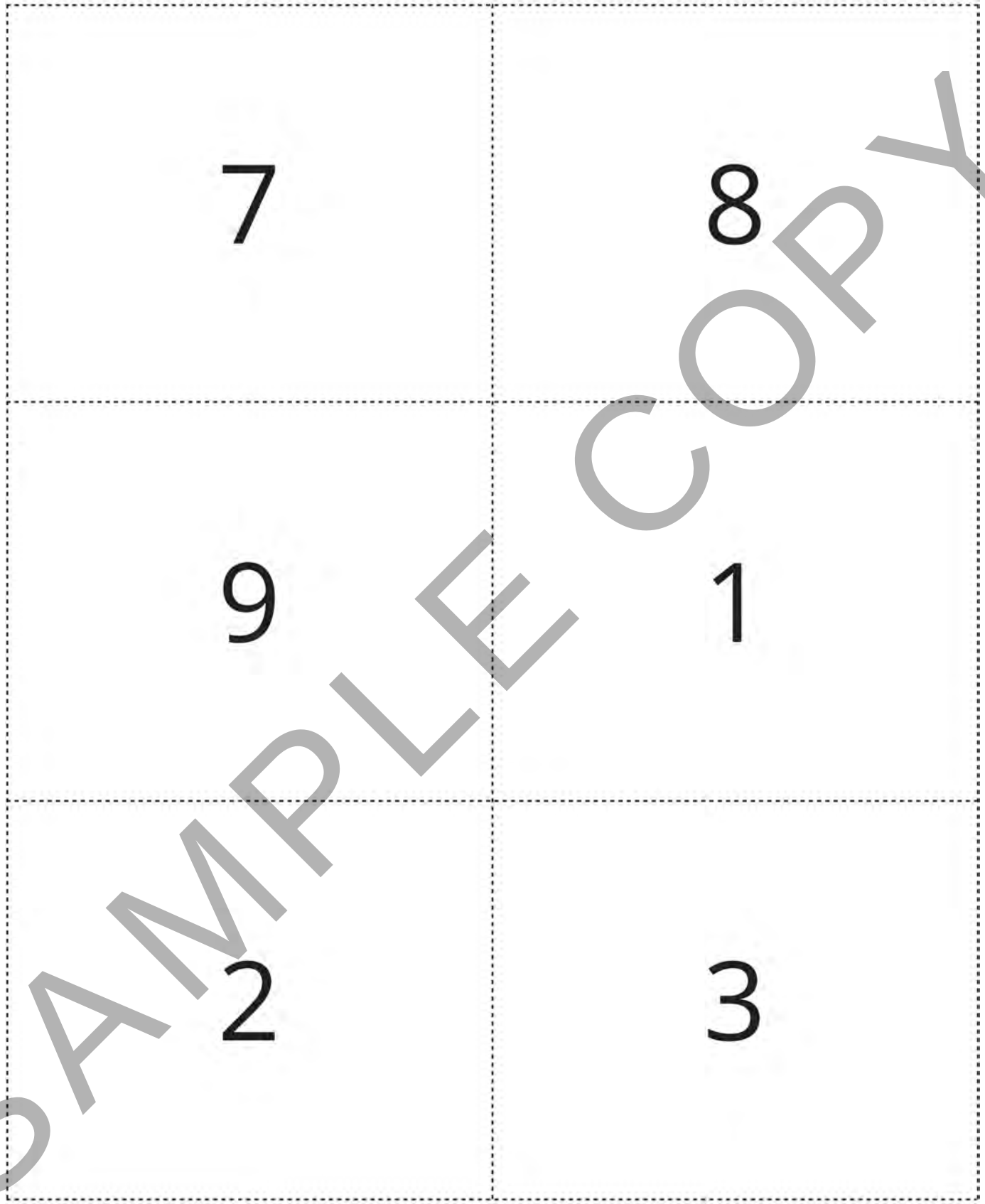
5	6	7	8	9
17	25	49	58	66

Directions:

- Take out the cards that show 0 and 10. Set them aside.
- On your turn:
  - Start at 100. Pick a number card. Choose whether to subtract that number of tens or ones from your starting number.
  - Write an equation to represent the difference.
- The difference is the starting number in the next equation.
- Take turns for 4 rounds.
- The partner to get a difference closer to 0 without going below 0 wins.

number card	choose	equation
	tens or **ones**	100 − _____ = _____
	tens or **ones**	_____ − _____ = _____
	tens or **ones**	_____ − _____ = _____
	tens or **ones**	_____ − _____ = _____
	tens or **ones**	_____ − _____ = _____
	tens or **ones**	_____ − _____ = _____





4	5
6	7
8	9

0	0
10	10

Using Blocks to Take Away
Player 1

Diego has
7 tens and 4 ones.

Using Blocks to Take Away
Player 2

Lin has
7 tens and 1 one.

Using Blocks to Take Away
Player 3

Jada has
6 tens and 3 ones.

Using Blocks to Take Away
Player 4

Han has
6 tens and 2 ones.

Using Blocks to Take Away
A

Han takes away
2 tens and 8 ones.

Using Blocks to Take Away
B

Jada takes away 27.

Using Blocks to Take Away
C

Han takes away 15.

Using Blocks to Take Away
D

Jada takes away
1 ten and 8 ones.

Using Blocks to Take Away
E

Lin takes away
2 tens and 9 ones.

Using Blocks to Take Away
F

Lin takes away 16.

Using Blocks to Take Away
G

Diego takes away
1 ten and 9 ones.

Using Blocks to Take Away
H

Diego takes away 37.

Card Sort: Sort and Find the Value
A

$65 - 36$

Card Sort: Sort and Find the Value
B

$72 + 19$

Card Sort: Sort and Find the Value
C

$92 - 63$

Card Sort: Sort and Find the Value
D

$64 + 27$

Card Sort: Sort and Find the Value
E

$35 + 42$

Card Sort: Sort and Find the Value
F

$56 - 24$

Card Sort: Sort and Find the Value
G

$83 - 58$

Card Sort: Sort and Find the Value
H

$27 + 33$

Card Sort: Sort and Find the Value

I

$72 - 19$

Card Sort: Sort and Find the Value

J

Card Sort: Sort and Find the Value

K

Card Sort: Sort and Find the Value

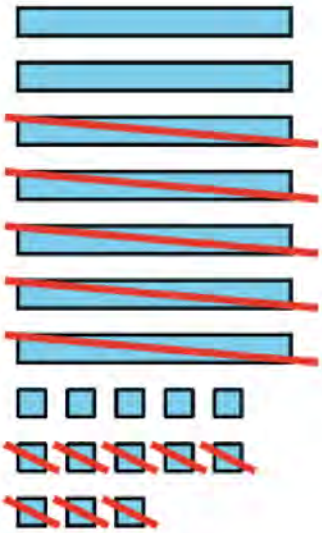
L

Card Sort: Sort and Find the Value

M

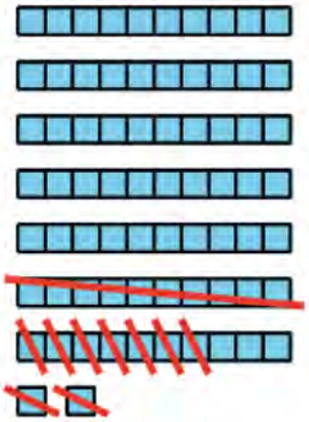
Card Sort: Sort and Find the Value

O



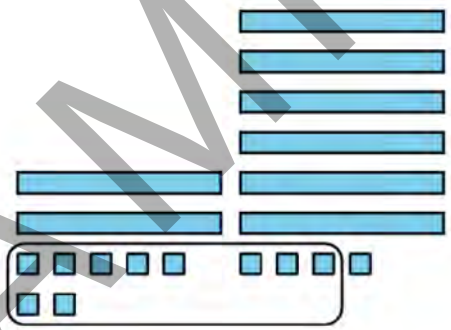
Card Sort: Sort and Find the Value

N



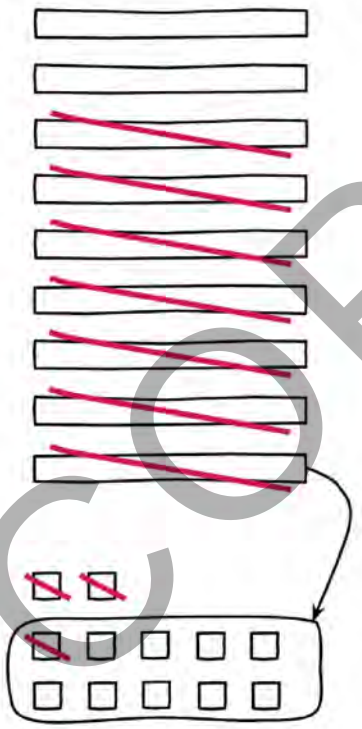
Card Sort: Sort and Find the Value

P



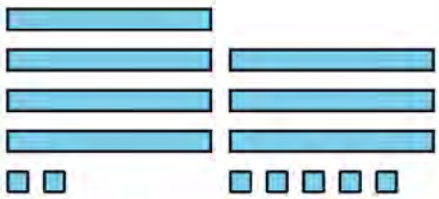
Card Sort: Sort and Find the Value

Q



Card Sort: Sort and Find the Value

R



Directions:

- On your turn:
  - Start at 100. Roll 3 number cubes. Choose 1 number to be the tens and 1 number to be the ones, and set 1 number aside.
  - Subtract the tens and ones from the starting number.
  - Write an equation to represent the difference.
- The difference is the starting number in the next equation.
- Take turns for 4 rounds.
- The partner to get a difference closer to 0 without going below 0 wins.

roll and choose	equation
____ **tens** ____ **ones**	100 − _____ = _____
____ **tens** ____ **ones**	_____ − _____ = _____
____ **tens** ____ **ones**	_____ − _____ = _____
____ **tens** ____ **ones**	_____ − _____ = _____

Card Sort: Story Problems and Diagrams

A

Elena gathers 52 orange seeds. She gathers 39 more apple seeds than orange seeds.

How many apple seeds does she gather?

Card Sort: Story Problems and Diagrams

B

Elena started with 39 apple seeds. Then she gathered more apple seeds. Now she has 52 apple seeds.

How many seeds did Elena gather?

Card Sort: Story Problems and Diagrams

C

Elena gathers some apple seeds and 39 orange seeds. She gathers 52 seeds all together.

How many apple seeds does she gather?

Card Sort: Story Problems and Diagrams

D

Jada started with some seeds. Then she won 28 seeds from Elena. Now she has 65 seeds.

How many seeds did Jada have at the start?

Card Sort: Story Problems and Diagrams

E

Elena wins 65 seeds. Jada wins 28 seeds.

How many more seeds does Elena win than Jada?

Card Sort: Story Problems and Diagrams

F

Elena has 65 seeds on her side of the game board. Jada has 28 seeds on her side.

How many seeds are on the game board in all?

Card Sort: Story Problems and Diagrams

G

Jada won 77 seeds in the first game she played. She won 19 fewer seeds in the second game.

How many seeds did Jada win in the second game?

Card Sort: Story Problems and Diagrams

H

Jada started a game with 77 seeds. She won 19 more seeds.

How many seeds does she have now?

Card Sort: Story Problems and Diagrams

I

Jada starts her turn with only 19 seeds. Now she has 77 seeds.

How many seeds does she win during her turn?

Card Sort: Story Problems and Diagrams

J

Card Sort: Story Problems and Diagrams

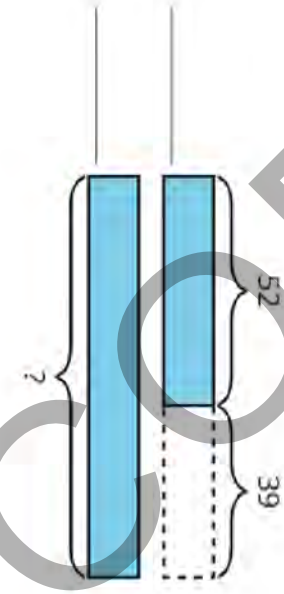
K

Card Sort: Story Problems and Diagrams

L

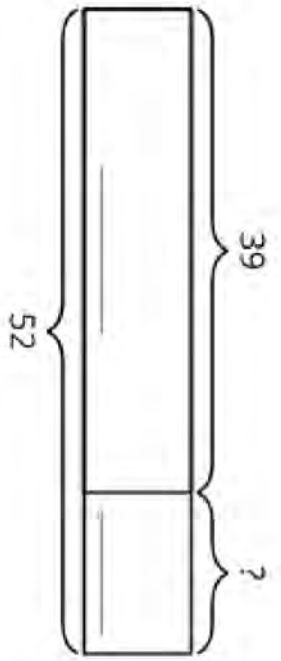
Card Sort: Story Problems and Diagrams

M



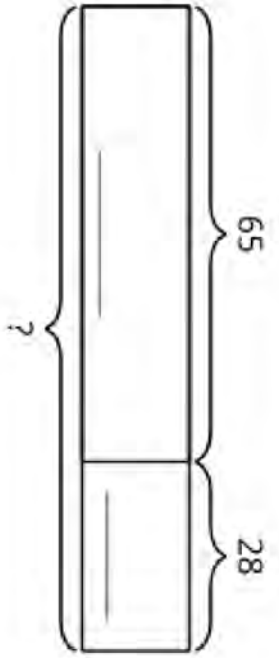
Card Sort: Story Problems and Diagrams

O



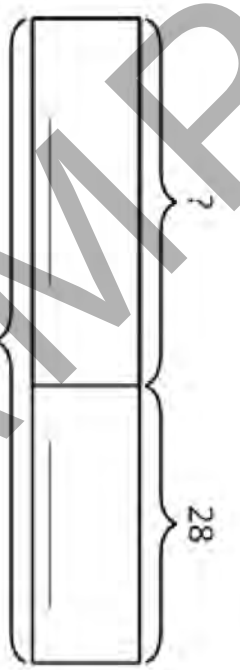
Card Sort: Story Problems and Diagrams

N



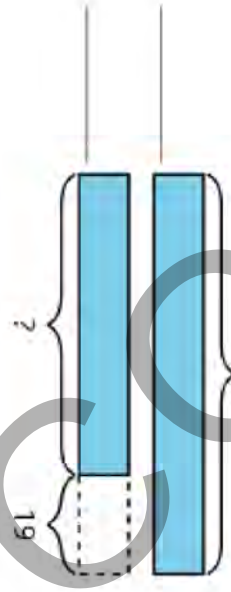
Card Sort: Story Problems and Diagrams

P



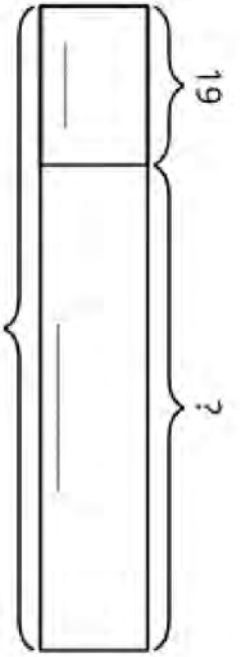
Card Sort: Story Problems and Diagrams

Q



Card Sort: Story Problems and Diagrams

R



Card Sort: Story Problems and Equations
J

$19 + ? = 77$

Card Sort: Story Problems and Equations
K

$65 + 28 = ?$

Card Sort: Story Problems and Equations
L

$? + 28 = 65$

Card Sort: Story Problems and Equations
M

$? + 39 = 52$

Card Sort: Story Problems and Equations
N

$39 + ? = 52$

Card Sort: Story Problems and Equations
O

$77 - 19 = ?$

Card Sort: Story Problems and Equations
P

$? + 19 = 77$

Card Sort: Story Problems and Equations
Q

$52 + 39 = ?$

Card Sort: Story Problems and Equations
R

$52 - 39 = ?$

Card Sort: Story Problems and Equations
S

$65 - 28 = ?$

Card Sort: Story Problems and Equations
T

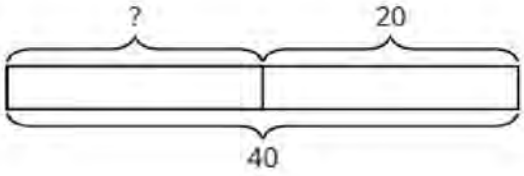
$28 + ? = 65$

Card Sort: Story Problems and Equations
U

$77 + 19 = ?$

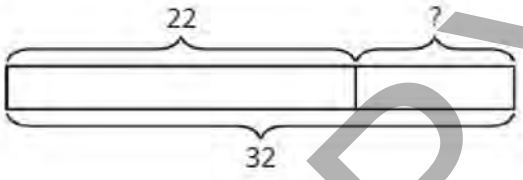
Math Stories Stage 5

A



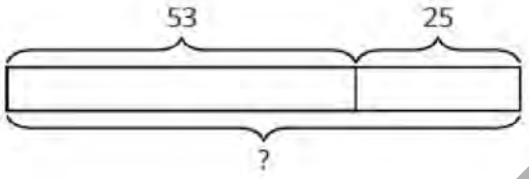
Math Stories Stage 5

B



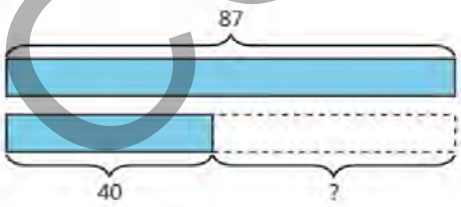
Math Stories Stage 5

C



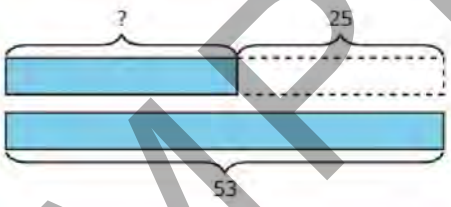
Math Stories Stage 5

D



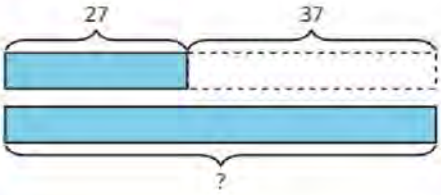
Math Stories Stage 5

E



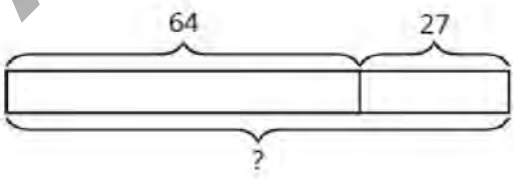
Math Stories Stage 5

F



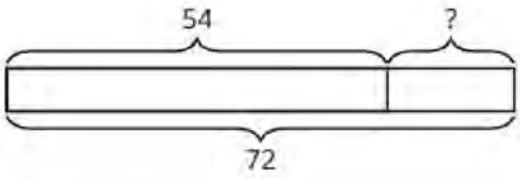
Math Stories Stage 5

G



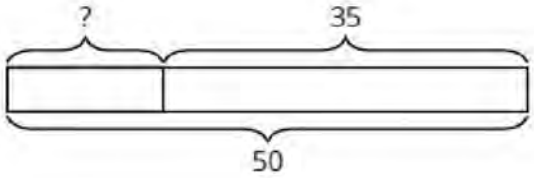
Math Stories Stage 5

H



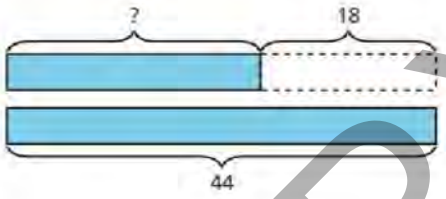
Math Stories Stage 5

I



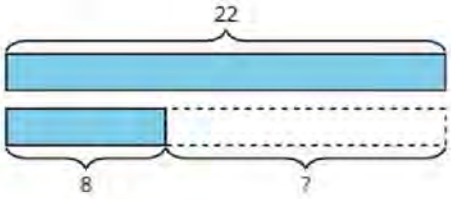
Math Stories Stage 5

J



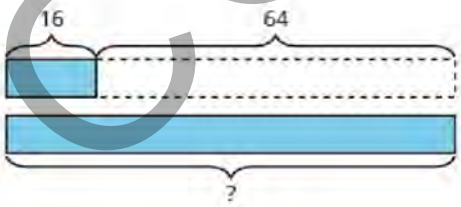
Math Stories Stage 5

K



Math Stories Stage 5

L



Directions:

- Partner A:
  - Pick a card without showing your partner.
  - Tell your partner a story problem that matches the tape diagram on the card.
- Partner B: Solve the problem. Draw a tape diagram that matches the story.
- Check to see if the tape diagrams are the same.
- Take turns.

my tape diagram: Equation:
my tape diagram: Equation:
my tape diagram: Equation:
my tape diagram: Equation: