Amplify Desmos Math

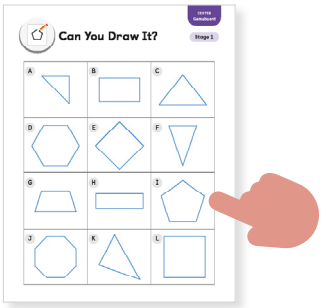
Grade 1

Centers Resources

Can You Draw It?

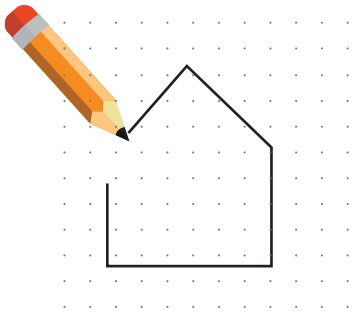
Stage 1

1



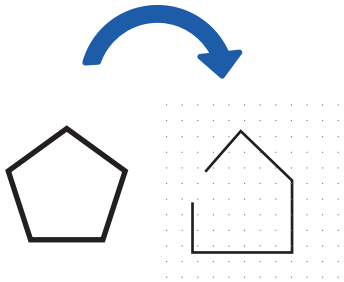
Player A: Choose a shape. Do not show it. Describe it to your partner.

2



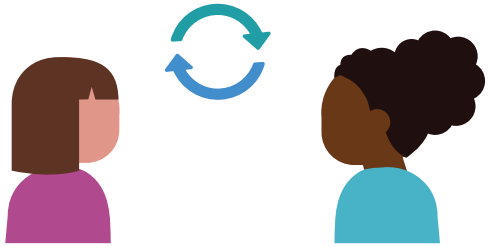
Player B: Draw the shape your partner described.

3



Compare the shapes. If your partner drew a shape with the same number of sides, place a counter on it.

4



Take turns. The player who earns more counters wins.

Let's describe and draw shapes.

Pairs

You'll need . . .

straightedges

two-color counters

Gameboard

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

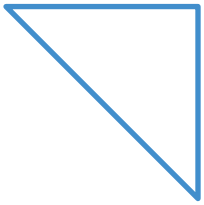
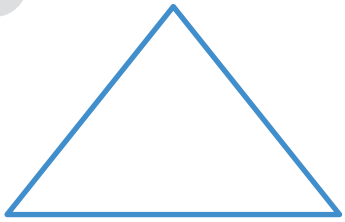
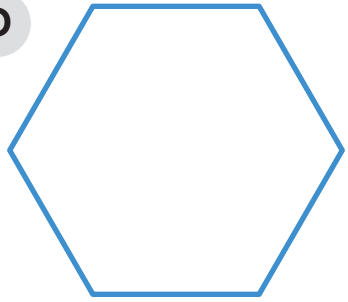
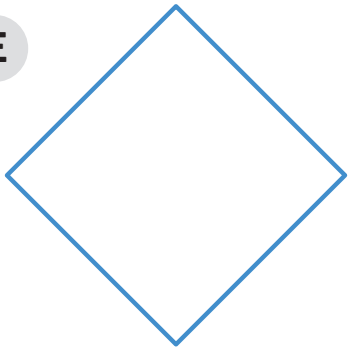
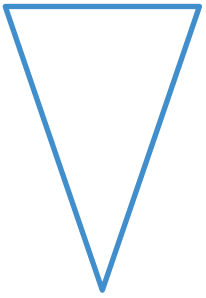
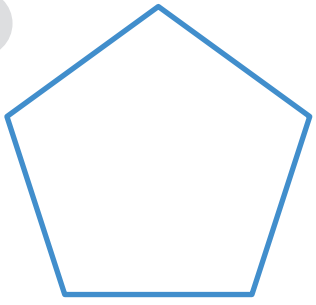
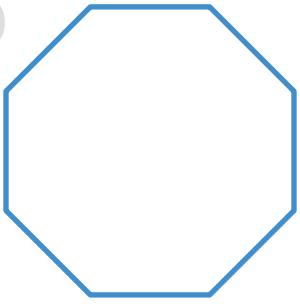
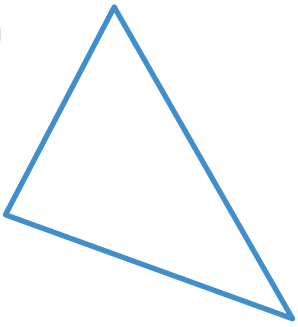
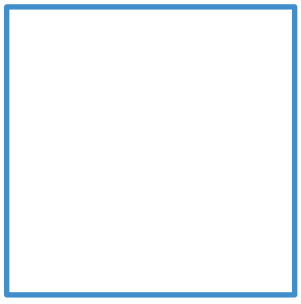
Can You Draw It?

Stage 1

Round	Drawing	Round	Drawing
1		4	
2		5	
3		6	

Can You Draw It?

Stage 1

A 	B 	C 
D 	E 	F 
G 	H 	I 
J 	K 	L 

CENTER
Directions

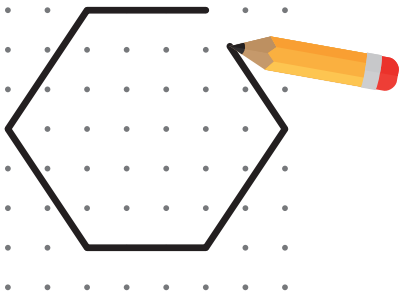
Can You Draw It?

Stage 2

1

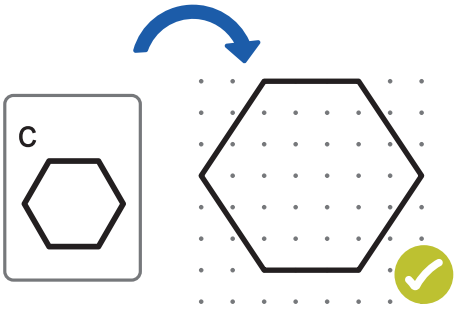
Player A: Choose a Shape Card. Do not show it. Describe it to your partner.

2



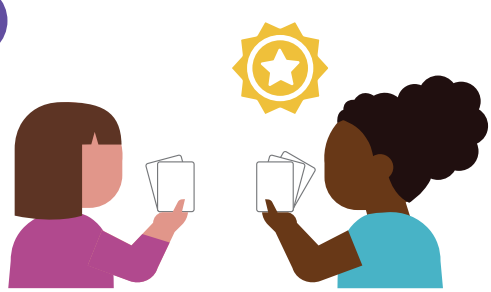
Player B: Draw the shape you think is on your partner's card.

3



Compare the shapes. If the shapes match, the drawer keeps the card.

4



Take turns. The player who earns more cards wins.

Let's describe and draw shapes.

Pairs

You'll need . . .

straightedges

Recording Sheet

Shape Cards, Grade 1

Name _____ Date _____

CENTER
Recording Sheet

Can You Draw It?

Stage 2

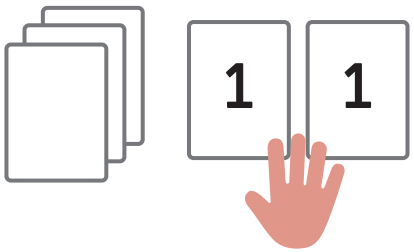
Round	Drawing	Round	Drawing
1		4	
2		5	
3		6	

CENTER
Directions

Check It Off

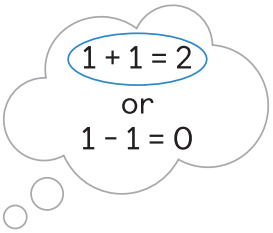
Stage 1

1



Draw 2 cards.

2



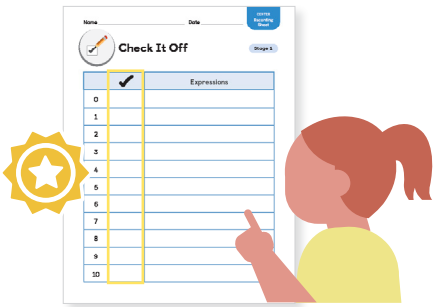
Find the *sum* or *difference*.

3

	✔	Expressions
0		
1		
2	✔	1 + 1

Check off the *sum* or *difference* you found, and record the *expression*. You can write another expression if you get the same *sum* or *difference* on another turn.

4



Take turns. The player who checks off more *sums* and *differences* wins.

Let's add and subtract within 10.

Pairs

You'll need . . .

Number Cards, 0–10

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Check It Off

Stage 1

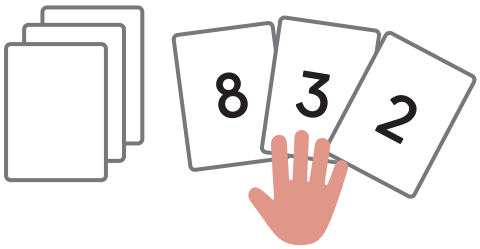
	✓	Expressions
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

CENTER
Directions

Check It Off

Stage 2

1



Draw 3 cards and find the sum. If the sum is less than 10 or more than 20, draw again.

2

12		
13		8 + 3 + 2
14		

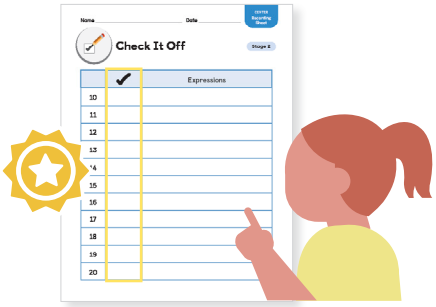
Record the expression, and explain how you found the sum.

3

12		
13	✓	8 + 3 + 2
14		

Check off the sum. You can write another expression if you get the same sum on another turn.

4



Take turns. The player who checks off more sums wins.

Let's add three numbers.

Pairs

You'll need . . .

Number Cards, 0–10

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Check It Off

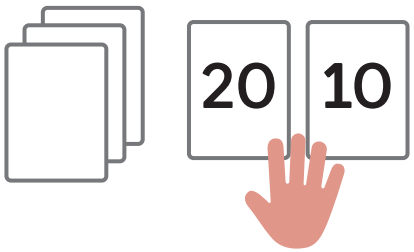
Stage 2

	✓	Expressions
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Check It Off

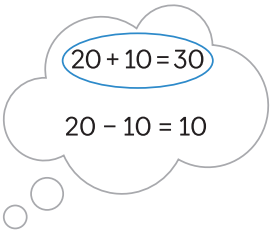
Stage 3

1



Draw 2 cards.

2



Find the *sum* or *difference*.

3

	✓	Expressions
0		
10		
20		
30	✓	20 + 10

Check off the *sum* or *difference* you found, and record the *expression*.

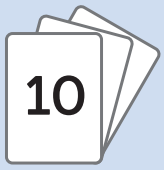
4

Take turns. The player who checks off more *sums* and *differences* wins.

Let's add and subtract tens.

Pairs

You'll need . . .



Number Cards, Multiples of 10

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Check It Off

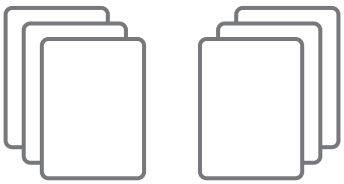
Stage 3

	✓	Expressions
0		
10		
20		
30		
40		
50		
60		
70		
80		
90		

Compare

Stage 1

1

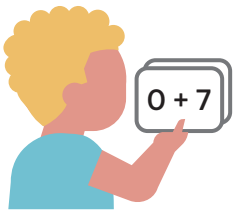


Divide the pile of cards between both players. Lay your cards facedown in a pile.

2

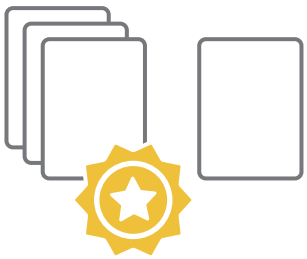
Each player flips over a card. Compare the values.

3



The player with the value that is more keeps both cards.

4



Play until you run out of facedown cards. Whoever has more cards wins.

Let's compare sums or differences within 10.

Pairs

You'll need . . .

Addition Expression Cards (up to 10)

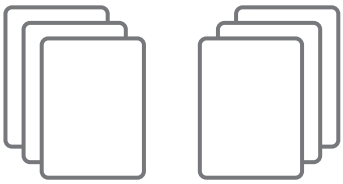
Subtraction Expression Cards (up to 10)

CENTER
Directions

Compare

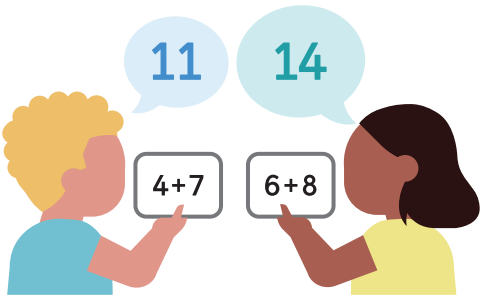
Stage 2

1



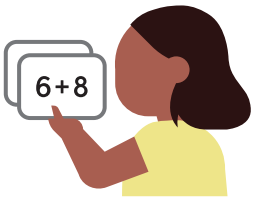
Divide the pile of cards between both players. Lay your cards facedown in a pile.

2



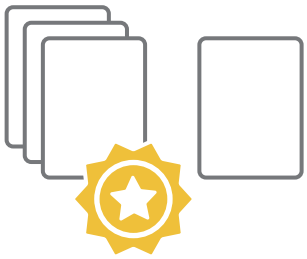
Each player flips over a card. Compare the values.

3



The player with the value that is more keeps both cards.

4



Play until you run out of facedown cards. Whoever has more cards wins.

Let's compare sums or differences within 20.

Pairs

You'll need . . .

Addition Cards

Subtraction Cards

Compare

Stage 2

Directions: Make one copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

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

Compare

Stage 2

5 + 9 Compare Stage 2	6 + 8 Compare Stage 2	7 + 7 Compare Stage 2
5 + 10 Compare Stage 2	6 + 9 Compare Stage 2	7 + 8 Compare Stage 2
6 + 10 Compare Stage 2	7 + 9 Compare Stage 2	8 + 8 Compare Stage 2
8 + 9 Compare Stage 2	9 + 9 Compare Stage 2	9 + 10 Compare Stage 2
10 + 10 Compare Stage 2	7 + 10 Compare Stage 2	8 + 10 Compare Stage 2

Compare

Stage 2

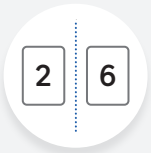
Directions: Make one copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

20 – 4 Compare Stage 2	20 – 13 Compare Stage 2	20 – 18 Compare Stage 2
20 – 12 Compare Stage 2	20 – 15 Compare Stage 2	20 – 9 Compare Stage 2
19 – 7 Compare Stage 2	19 – 11 Compare Stage 2	19 – 16 Compare Stage 2
19 – 3 Compare Stage 2	18 – 13 Compare Stage 2	18 – 9 Compare Stage 2
18 – 6 Compare Stage 2	18 – 10 Compare Stage 2	17 – 2 Compare Stage 2

Compare

Stage 2

17 – 8 Compare Stage 2	17 – 14 Compare Stage 2	17 – 9 Compare Stage 2
16 – 12 Compare Stage 2	16 – 3 Compare Stage 2	16 – 7 Compare Stage 2
16 – 8 Compare Stage 2	15 – 11 Compare Stage 2	15 – 7 Compare Stage 2
15 – 6 Compare Stage 2	15 – 3 Compare Stage 2	14 – 2 Compare Stage 2
14 – 6 Compare Stage 2	14 – 8 Compare Stage 2	14 – 9 Compare Stage 2



Compare

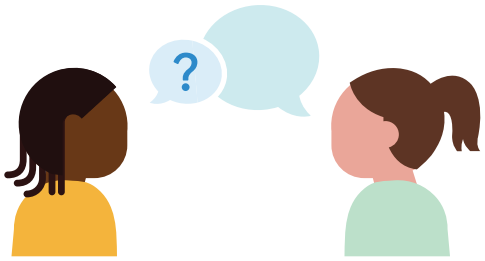
Stage 2

13 – 4 Compare Stage 2	13 – 11 Compare Stage 2	13 – 8 Compare Stage 2
13 – 7 Compare Stage 2	12 – 9 Compare Stage 2	12 – 3 Compare Stage 2
12 – 6 Compare Stage 2	12 – 8 Compare Stage 2	11 – 8 Compare Stage 2
11 – 9 Compare Stage 2	11 – 4 Compare Stage 2	11 – 2 Compare Stage 2

Counting Collections

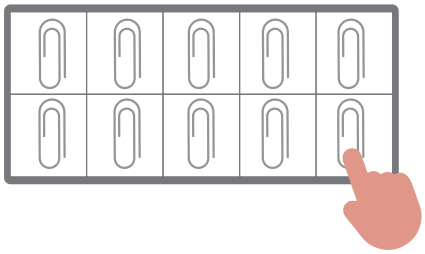
Stage 2

1



Talk with your partner about how to count the objects.

2

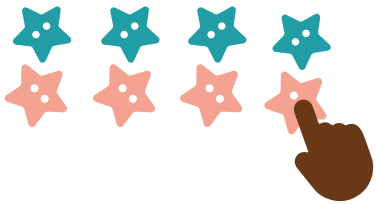


Count the objects together.

3

Record how many you counted.

4

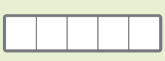


Choose a new collection and repeat.

Let's count and show how many.

Pairs

You'll need . . .



5-frames

10-frames

collection of objects (up to 20)

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Counting Collections

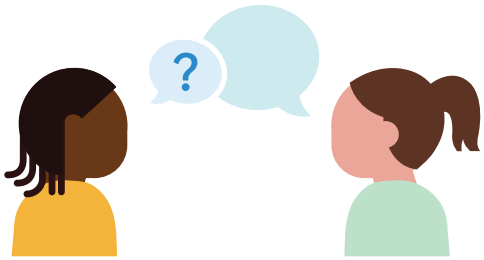
Stage 2

How many are there? Show how you counted.

Counting Collections

Stage 3

1

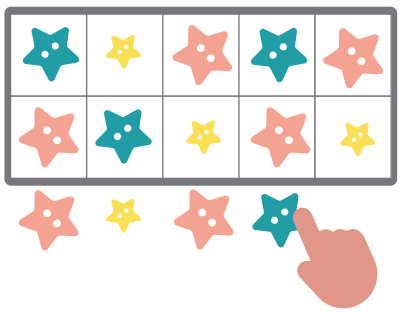


Talk with your partner about how to count the objects.

2

Count the objects together.

3



Record how you counted.

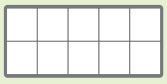
4 How many objects are there?

Record how many you counted.

Let's count and show how many.

Pairs

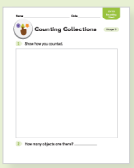
You'll need . . .



10-frames

collection of objects (up to 99)

cups



Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Counting Collections

Stage 3

1 Show how you counted.

2 How many objects are there? _____

Counting Collections

Stage 4

1

How many objects do you think there are? 72

Estimate and record how many objects you think there are.

2

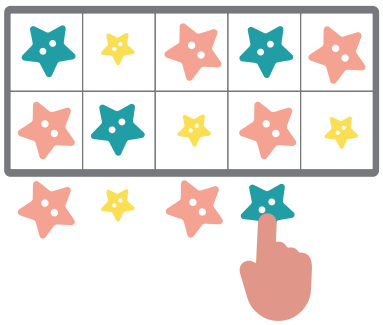
Count the objects together.

3

How many objects are there? 115

Record how many you counted.

4



Compare how many you counted to your estimate and repeat.

Let's estimate and count objects.

Pairs

You'll need . . .

10-frames

collection of objects (99–120)

cups or paper plates

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Counting Collections

Stage 4

1. How many objects do you think there are? _____

2. Show how you counted.

3. How many objects are there? _____

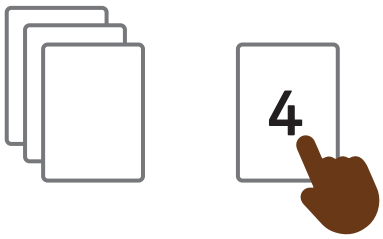
4. Was your estimate too low or too high? _____

CENTER
Directions

Cover Up

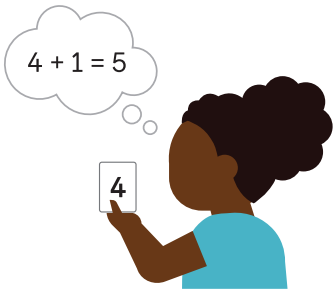
Stage 1

1



Draw a card.

2



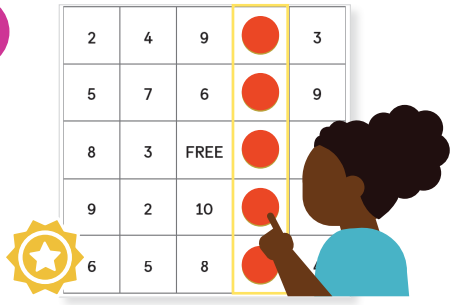
Add 1 or 2. Tell your partner which you choose.

3

2	4	9	8	3
5	7	6	10	9
8	3	FREE	5	4
9	2	10	3	
6	5	8	9	

Cover the sum.

4



Take turns and repeat. The first player to cover 5 in a row wins.

Let's add 1 or 2.

Pairs

You'll need . . .

two-color counters

Number Cards, 0–9

Gameboard A or B

Cover Up

Stage 1

2	4	9	8	3
5	7	6	10	9
8	3	FREE	5	4
9	2	10	3	7
6	5	8	9	4

Cover Up

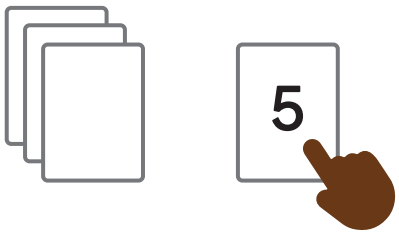
Stage 1

8	9	8	5	2
5	2	3	7	4
8	10	FREE	6	9
9	3	5	10	8
4	7	4	9	3

Cover Up

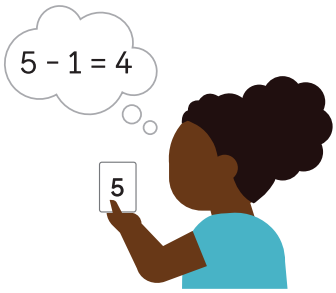
Stage 2

1



Draw a card.

2



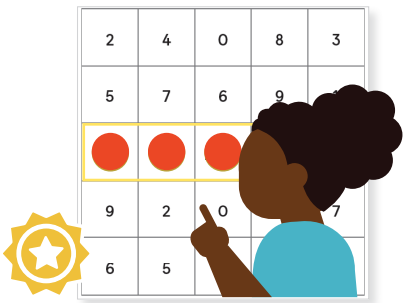
Subtract 1 or 2. Tell your partner which you choose.

3

2	4	9	8	3
5	7	6	10	9
8	3	FREE	5	
9	2	10	3	7
6	5	8	9	4

Cover the difference.

4



Take turns and repeat. The first player to cover 5 in a row wins.

Let's subtract 1 or 2.

Pairs

You'll need . . .

Number Cards, 2–10

two-color counters

Gameboard A or B

Cover Up

Stage 2

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

Cover Up

Stage 2

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

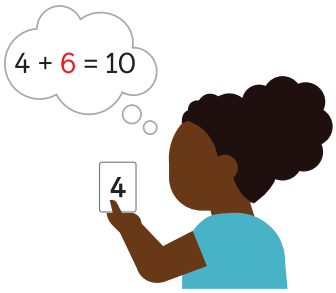
Cover Up

Stage 3

1

Draw a card.

2



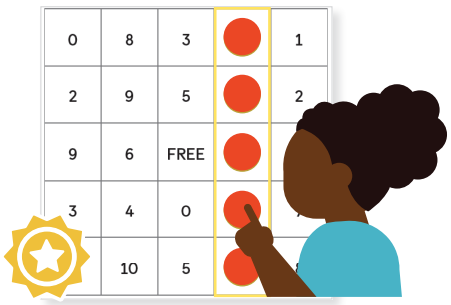
Find the number you can add to make 10.

3

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

Cover that number.

4



Take turns and repeat. The first player to cover 5 squares in a row wins.

Let's add to make 10.

Pairs

You'll need . . .

two-color counters

Gameboard A or B

Number Cards, 0–10

Cover Up

Stage 3

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

CENTER
Gameboard B

Cover Up

Stage 3

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

CENTER
Directions

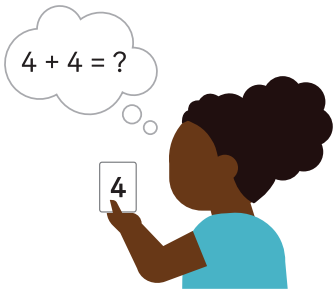
Cover Up

Stage 4

1

Draw a card.

2



Double the number.

3

4	8	12	16	6
2	14	18	0	10
12	6	FREE	10	20
18	4	0	6	14
20	10	16	2	

Cover the sum.

4

4	8	12	16	
2	14	18	0	
12	6	FREE	10	
18	4	0	6	
	10	16	2	

Take turns and repeat. The first player to cover 5 squares in a row wins.

Let's add doubles.

Pairs

You'll need . . .

two-color counters

Gameboard A or B

Number Cards, 0–10

Cover Up

Stage 4

4	8	12	16	6
2	14	18	0	10
12	6	FREE	10	20
18	4	0	6	14
20	10	16	2	8

Cover Up

Stage 4

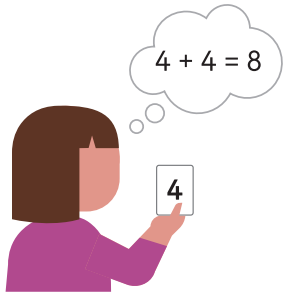
6	2	12	14	16
20	10	4	12	6
0	18	FREE	18	0
14	8	10	16	4
4	20	8	10	2

CENTER
Directions

Cover Up

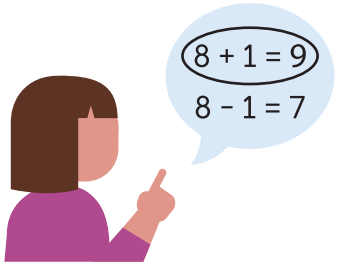
Stage 5

1



Draw a card and double the number.

2



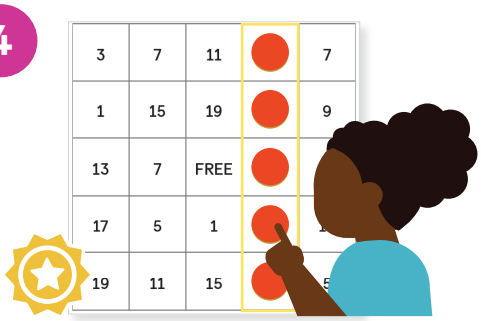
Add or subtract 1. Tell your partner which you choose.

3

3	7	11	17	7
1	15	19	1	9
13	7	FREE	11	19
17	5	1		
19	11	15	3	5

Cover the sum or difference.

4



3	7	11		7
1	15	19		9
13	7	FREE		
17	5	1		
19	11	15		

Take turns and repeat. The first player to cover 5 squares in a row wins.

Let's add and subtract to find numbers near doubles.

Pairs

You'll need . . .

two-color counters

Gameboard A or B

Number Cards, 0–10

Cover Up

Stage 5

3	7	11	17	7
1	15	19	1	9
13	7	FREE	11	19
17	5	1	9	13
19	11	15	3	5

Cover Up

Stage 5

5	1	11	15	17
19	9	3	12	13
1	17	FREE	19	1
13	7	9	15	5
3	19	7	11	3

CENTER
Directions

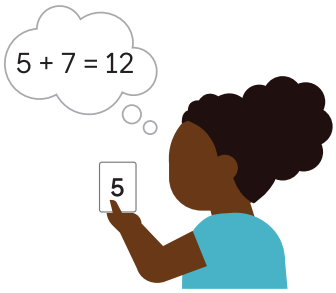
Cover Up

Stage 6

1

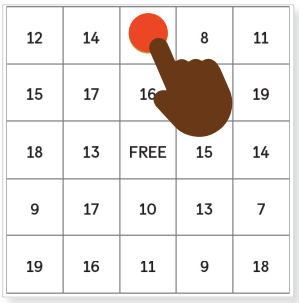
Draw a card.

2



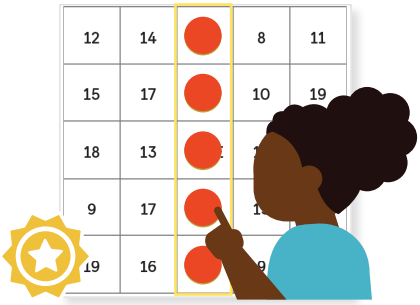
Add 7, 8, or 9 to the number card. Tell your partner which you choose.

3



Cover the sum.

4



Take turns and repeat. The first player to cover 5 in a row wins.

Let's add 7, 8, or 9.

Pairs

You'll need . . .

Number Cards, 0–10

two-color counters

Gameboard A or B

Cover Up

Stage 6

12	14	12	8	11
15	17	16	10	19
18	13	FREE	15	14
9	17	10	13	7
19	16	11	9	18

Cover Up

Stage 6

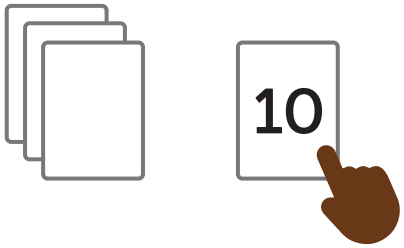
11	15	14	9	13
17	13	11	19	10
12	17	FREE	15	12
16	18	8	19	18
10	9	7	16	14

CENTER
Directions

Cover Up

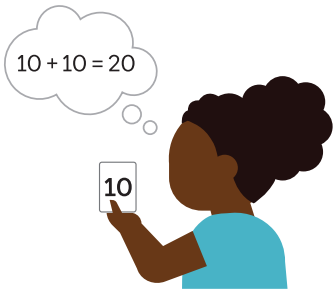
Stage 7

1



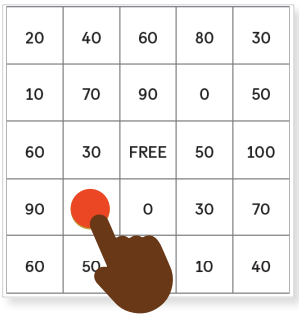
Draw a card.

2



Add or subtract 10 from the number card.

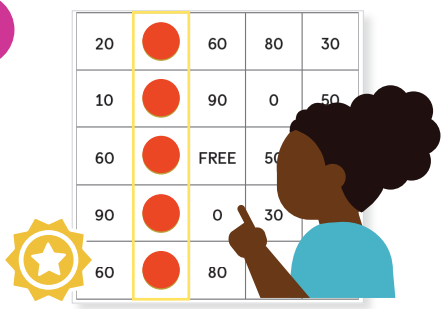
3



20	40	60	80	30
10	70	90	0	50
60	30	FREE	50	100
90		0	30	70
60	50		10	40

Cover the sum or difference.

4



20		60	80	30
10		90	0	50
60		FREE	50	
90		0	30	
60		80		

Take turns and repeat. The first player to cover 5 in a row wins.

Let's add or subtract 10.

Pairs

You'll need . . .

two-color counters

Gameboard A or B

Number Cards, Multiples of 10

Cover Up

Stage 7

20	40	60	80	30
10	70	90	0	50
60	30	FREE	50	100
90	20	0	30	70
60	50	80	10	40

Cover Up

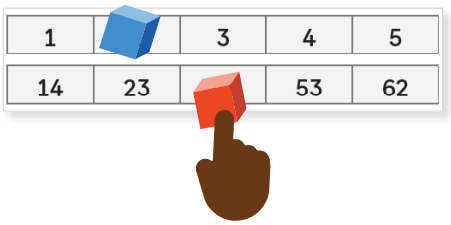
Stage 7

30	10	30	70	80
100	50	30	60	60
0	90	FREE	50	0
70	40	50	80	20
20	90	40	40	10

Cover Up

Stage 8

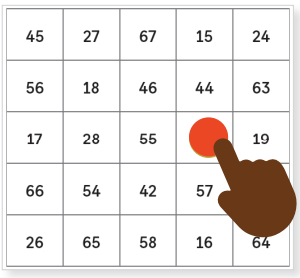
1



Choose who will use red counters and who will use yellow counters.

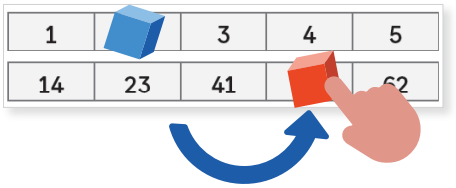
Player A: Put a cube on a number in each gray row.

2



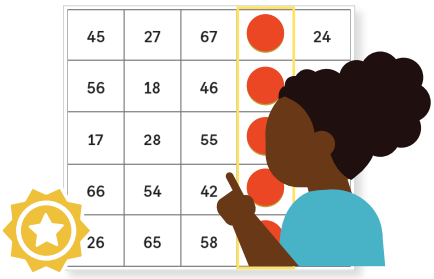
Add. Cover the sum of the 2 numbers with a counter.

3



Player B: Move 1 of the cubes. Add the numbers, and cover the sum.

4



Take turns and repeat. The first player to cover 5 in a row wins.

Let's add within 100 without composing.

Pairs

You'll need . . .

2 base-ten units

two-color counters

Gameboard A or B

Recording Sheet

Cover Up

Stage 8

45	27	67	15	24
56	18	46	44	63
17	28	55	43	19
66	54	42	57	25
26	65	58	16	64

1	2	3	4	5

14	23	41	53	62

Cover Up

Stage 8

93	76	55	85	43
37	56	74	49	58
77	48	59	46	63
66	68	64	35	54
57	25	36	75	38

12	23	25	31	34

42	13	51	24	43

Name _____ Date _____

CENTER
Recording Sheet

Cover Up

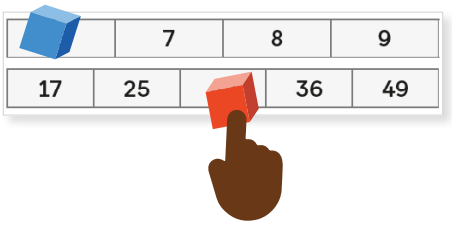
Stage 8

Addition expression	Sum

Cover Up

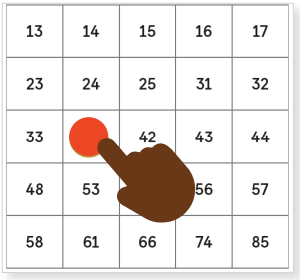
Stage 9

1



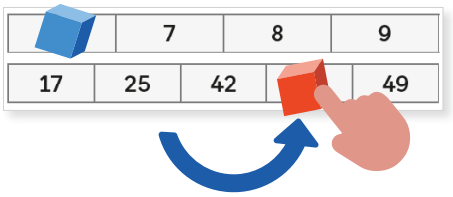
Player A: Put each cube on a number in the gray boxes.

2



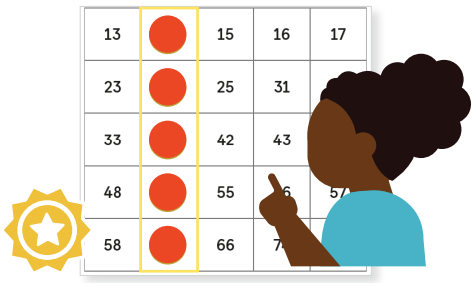
Add, record, and cover the sum with a counter.

3



Player B: Move 1 of the cubes. Add, record, and cover the sum.

4



Take turns. The first player to cover 5 in a row wins.

Let's add within 100.

Pairs

You'll need . . .

- 2 base-ten units
- two-color counters
- Gameboard A or B
- Recording Sheet

Cover Up

Stage 9

13	14	15	16	17
23	24	25	31	32
33	34	42	43	44
48	53	55	56	57
58	61	66	74	85

6	7	8	9

17	25	42	36	49

Cover Up

Stage 9

35	41	43	44	47
50	51	52	56	58
60	61	62	64	66
67	68	69	71	73
77	79	83	87	94

16	27	25	35

45	19	52	31	42

Name _____ Date _____

CENTER
Recording Sheet

Cover Up

Stage 9

Addition expression	Sum

CENTER
Directions

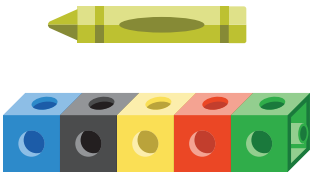
Estimate and Measure

Stage 2

1

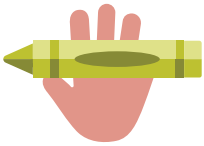
Choose an object from the bag. Feel it. Predict if the object is longer or shorter than the tower of 5 connecting cubes.

2



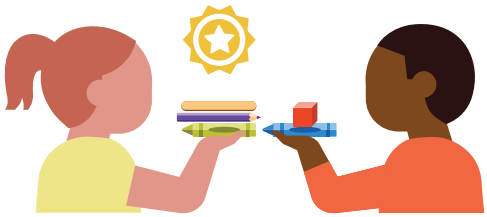
Find if the object is longer or shorter than the tower of 5 connecting cubes.

3



If the object is shorter, keep the object.

4



Take turns and repeat. The player with more objects wins.

Let's estimate and compare the lengths of different objects.

Pairs

You'll need . . .

objects to measure

paper bag

tower of 5 connecting cubes

Work Mat (optional)

CENTER
Directions

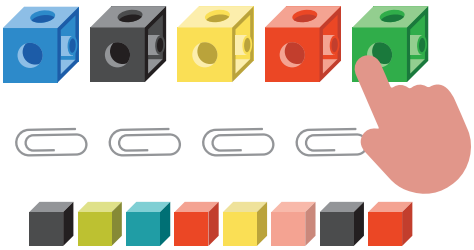
Estimate and Measure

Stage 3

1

Choose an object to measure.

2

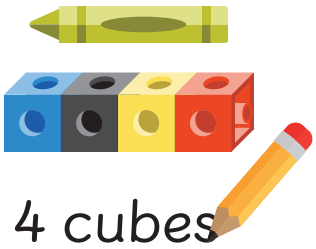


Choose a unit to measure the length. Use cubes, paper clips, or a different unit.

3

Estimate the length of your object and record your estimate.

4



Measure and record the actual measurement.

Let's estimate and measure the lengths of different objects.

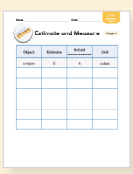
Independent

You'll need . . .


connecting cubes


objects to measure


paper clips


Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Estimate and Measure

Stage 3

Object	Estimate	Actual measurement	Unit
crayon	5	4	cubes

CENTER
Directions

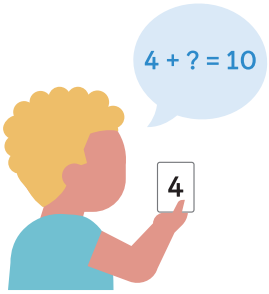
Find the Pair

Stage 2

1

Each player draws 5 cards and lays the rest facedown in a pile.

2

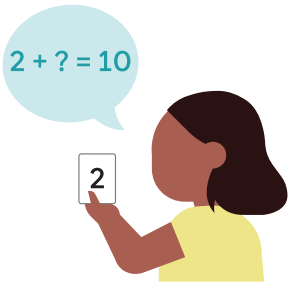


Ask your partner for a number card so you can make 10.

3

Yes? Put the pair of cards down, and fill in the equation.
No? Draw another card from the pile.

4



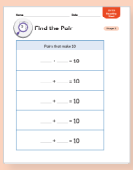
Take turns asking for cards to make 10. The player who makes more pairs wins.

Let's find pairs that make 10.

Pairs

You'll need . . .

Number Cards, 0–10



Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Find the Pair

Stage 2

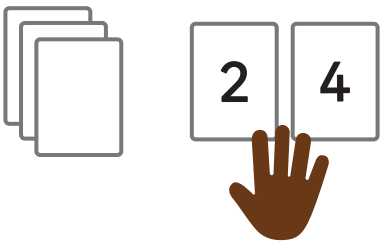
Pairs that make 10
_____ + _____ = 10
_____ + _____ = 10
_____ + _____ = 10
_____ + _____ = 10
_____ + _____ = 10

CENTER
Directions

Stage 1

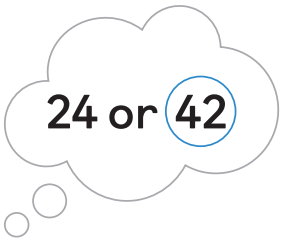
Get Your Numbers in Order

1



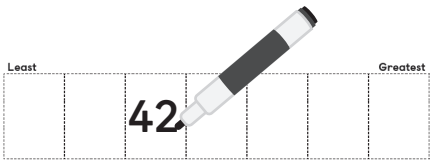
Draw 2 Number Cards.

2



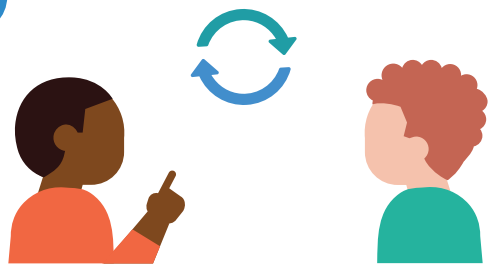
Make a two-digit number. Record it on the Gameboard.

3



Numbers must go in order. If there is no space to record your number, you earn 1 point.

4



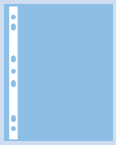
Take turns until the board is filled. The player with fewer points wins.

Let's order two-digit numbers from least to greatest.

Pairs

You'll need . . .

dry-erase markers



sheet protectors

Number Cards, 0–9

Gameboard

Get Your Numbers in Order

Stage 1

Least Greatest

Points

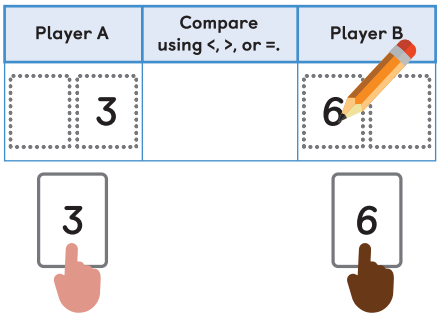
Player A	Player B

CENTER
Directions

Greatest of Them All

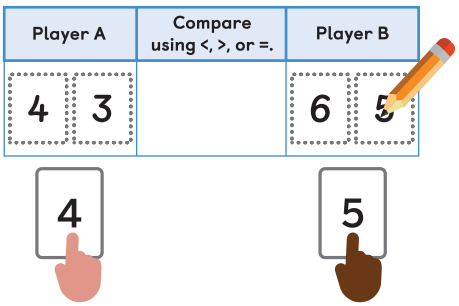
Stage 1

1



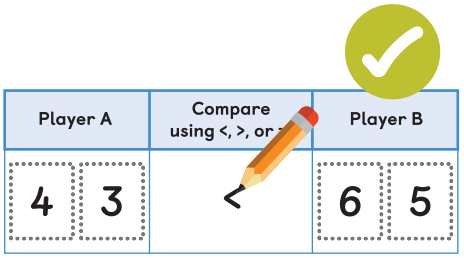
Both players draw a Number Card and record it in one of the boxes.

2



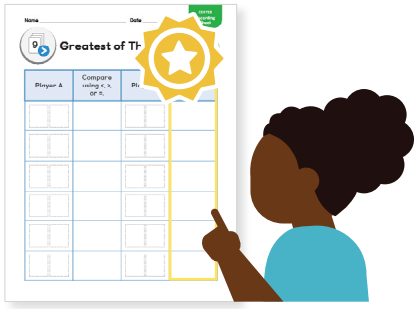
Draw a second card and record it to make a two-digit number.

3



Write a comparison using <, >, or =. The player with the greater number earns 1 point.

4



Play 6 rounds. The player who earns more points wins.

Let's make and compare two-digit numbers.

Pairs

You'll need . . .

Number Cards, 0–9

Recording Sheet, one per pair

Name _____ Date _____

CENTER
Recording Sheet

Greatest of Them All

Stage 1

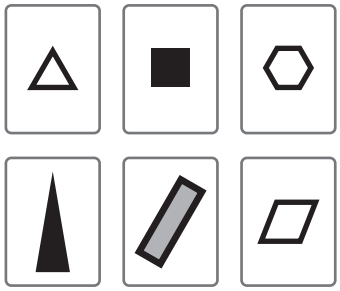
Player A	Compare using <, >, or =.	Player B	Winner?

CENTER
Directions

Stage 1

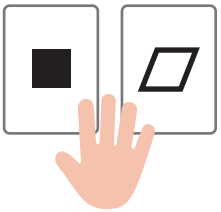
How Are They the Same?

1



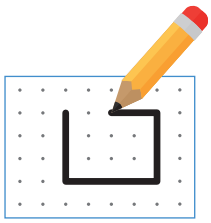
Lay 6 Shape Cards faceup.

2



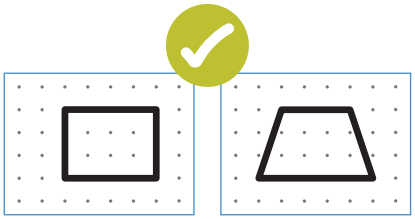
One player chooses 2 cards that have an attribute in common, without sharing the attribute with the group.

3



All players draw the 2 shapes and another shape that has a shared attribute with the 2 shapes.

4



Each player earns 1 point for a shape with a shared attribute with both shapes on the cards.

Let's draw shapes that have shared attributes.

Groups of 4

You'll need . . .

straightedges

Shape Cards, Grade 1

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

How Are They the Same?

Stage 1

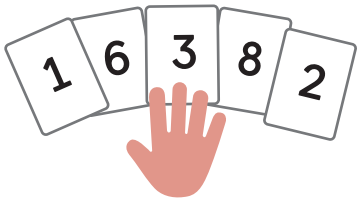
Shape 1	Shape 2	My shape drawing	Points

CENTER
Directions

How Close?

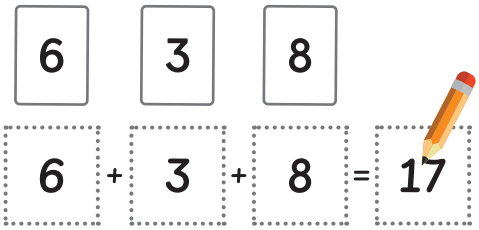
Stage 1

1



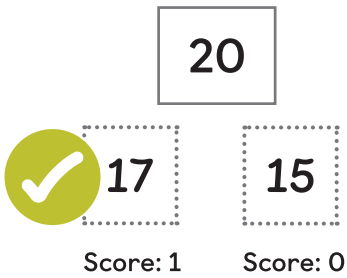
Draw 5 cards.

2



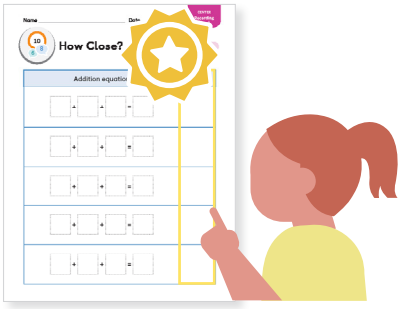
Choose 3 cards to fill in your equation. Find the sum.

3



Compare your sums. If your sum is closer to 20, you earn a point.

4



Draw 3 new cards and play again. The player who earns more points wins.

Let's add within 20.

Pairs

You'll need . . .

Number Cards, 0–9

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

How Close?

Stage 1

Addition equation	Points
☐ + ☐ + ☐ = ☐	
☐ + ☐ + ☐ = ☐	
☐ + ☐ + ☐ = ☐	
☐ + ☐ + ☐ = ☐	
☐ + ☐ + ☐ = ☐	

CENTER
Directions

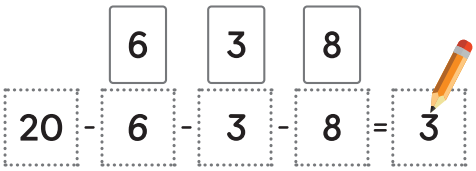
How Close?

Stage 2

1

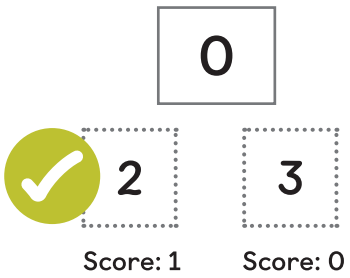
Draw 5 cards.

2



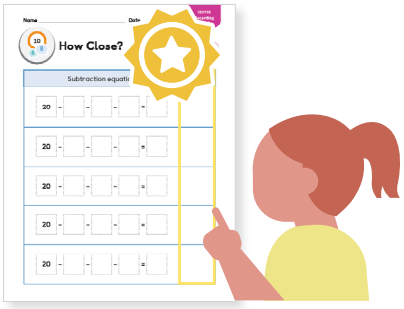
Choose 3 cards to fill in your equation. Find the difference.

3



Compare your differences. If your difference is closer to 0, you earn a point.

4



Draw 3 new cards and play again. The player who earns more points wins.

Let's subtract within 20.

Pairs

You'll need . . .

Number Cards, 0–9

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

How Close?

Stage 2

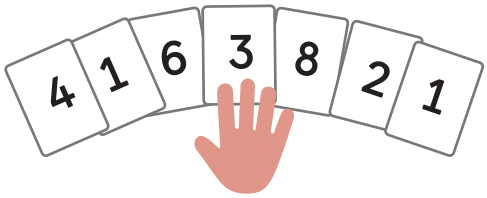
Subtraction equation	Points
20 – ☐ – ☐ – ☐ = ☐	
20 – ☐ – ☐ – ☐ = ☐	
20 – ☐ – ☐ – ☐ = ☐	
20 – ☐ – ☐ – ☐ = ☐	
20 – ☐ – ☐ – ☐ = ☐	

CENTER
Directions

How Close?

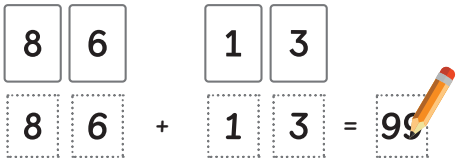
Stage 3

1



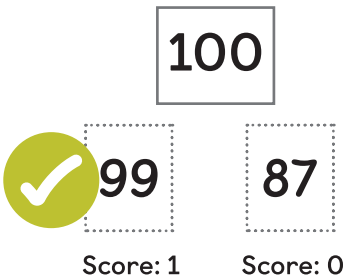
Draw 7 cards.

2



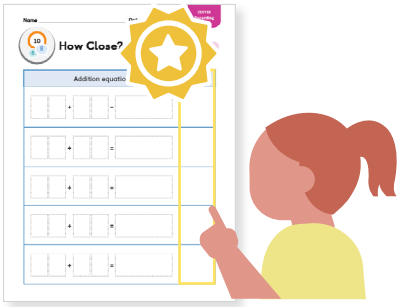
Choose 4 cards to fill in your equation. Find the sum.

3



Compare your sums. If your sum is closer to 100, you earn a point.

4



Draw 4 new cards and play again. The player who earns more points wins.

Let's add numbers within 100.

Pairs

You'll need . . .

Number Cards, 0–9

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

How Close?

Stage 3

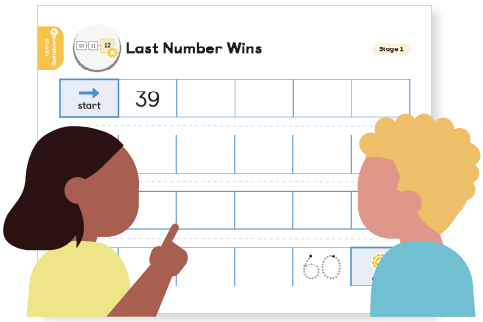
Addition equation	Points
☐☐ + ☐☐ = ☐☐	
☐☐ + ☐☐ = ☐☐	
☐☐ + ☐☐ = ☐☐	
☐☐ + ☐☐ = ☐☐	
☐☐ + ☐☐ = ☐☐	

CENTER
Directions

Last Number Wins

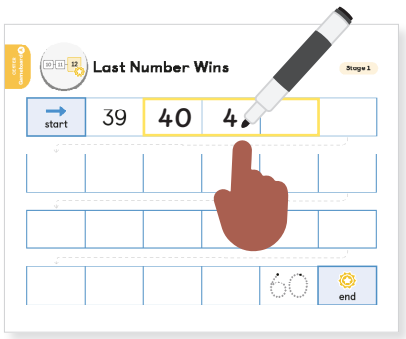
Stage 1

1



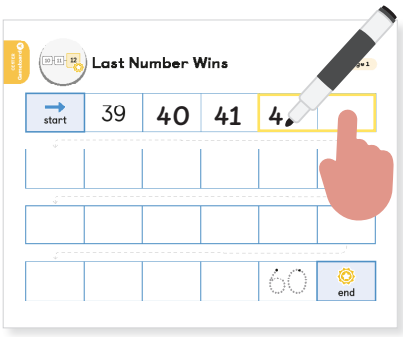
Choose a Gameboard.

2



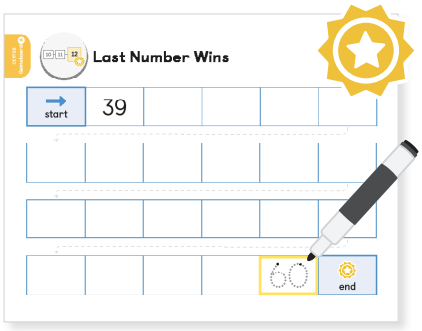
Player A: Record the next 1, 2, or 3 numbers on the Gameboard.

3



Take turns choosing how many numbers to record and recording them.

4



The player who records the last number on the Gameboard wins.

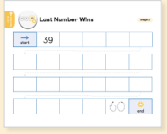
Let's count by 1.

Pairs

You'll need . . .

dry-erase markers

sheet protectors



Gameboards A–D

Last Number Wins

Stage 1

start	39				
					end

CENTER
Gameboard B

Last Number Wins

Stage 1

start	69				
				90	end

Last Number Wins

Stage 1

start	78				
					end

CENTER
Gameboard D

Last Number Wins

Stage 1

Choose your own starting number.

start

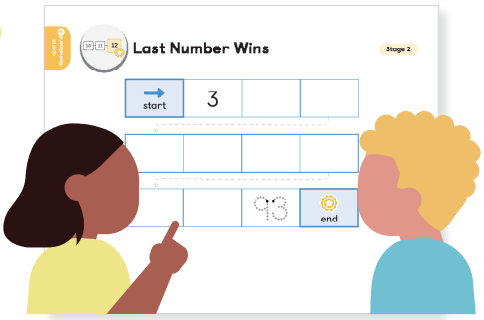
end

CENTER
Directions

Last Number Wins

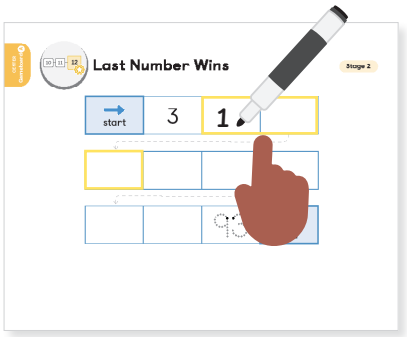
Stage 2

1



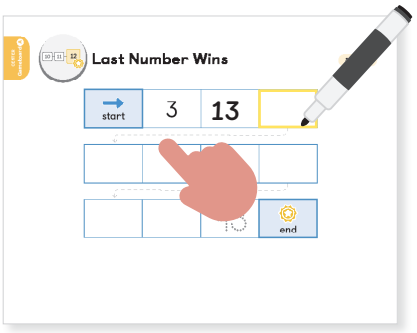
Choose a Gameboard.

2



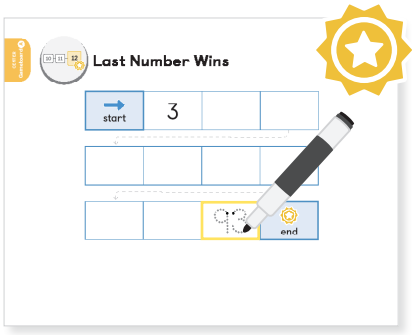
Player A: Count by 10 and record the next 1, 2, or 3 numbers on the Gameboard.

3



Take turns choosing how many numbers to record and recording them.

4



The player who records the last number on the Gameboard wins.

Let's count by 10.

Pairs

You'll need . . .

dry-erase markers

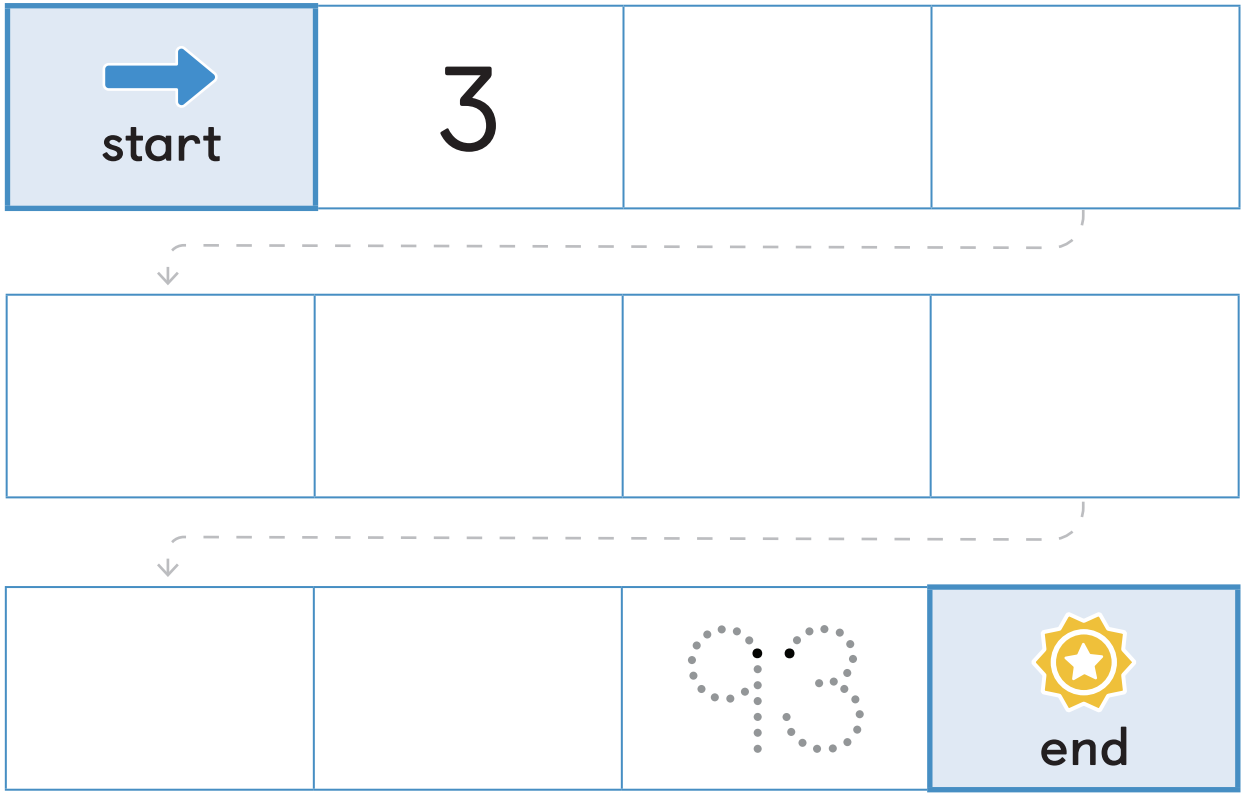
sheet protectors

Gameboards A–D

CENTER
Gameboard A

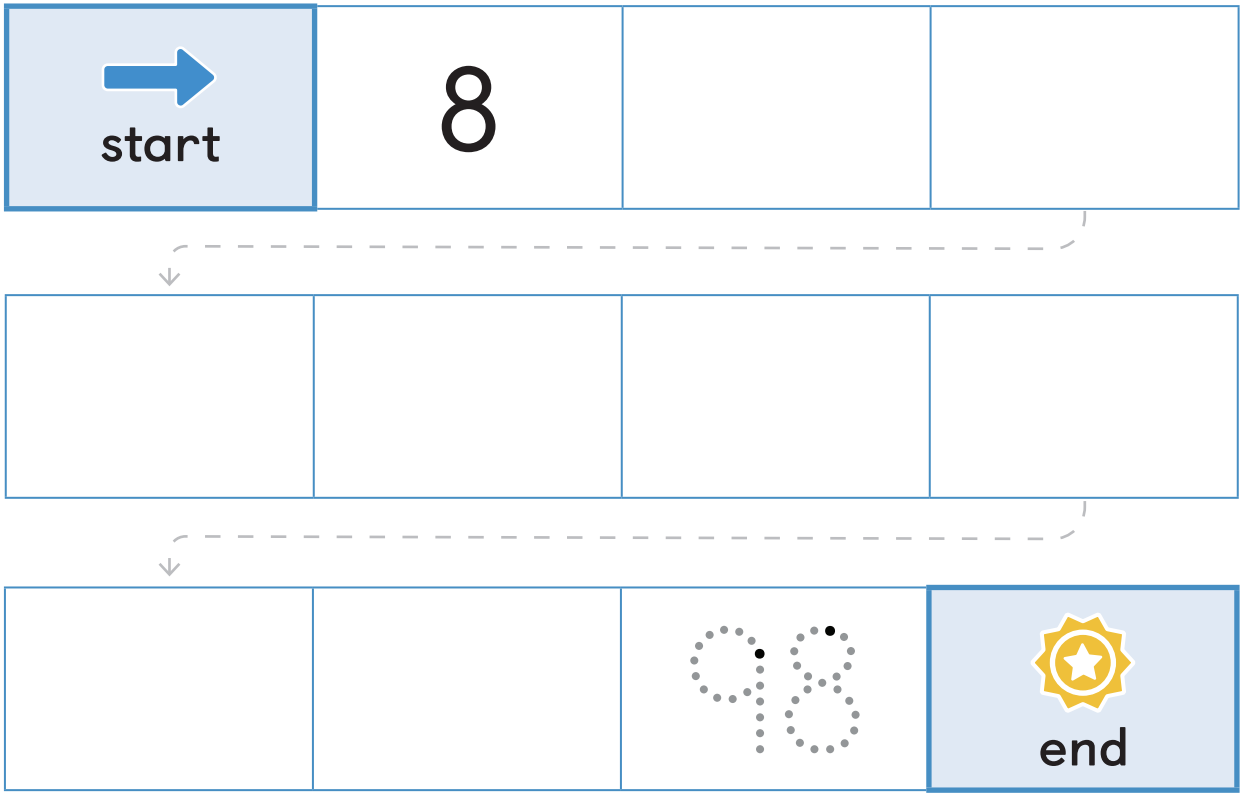
Last Number Wins

Stage 2



Last Number Wins

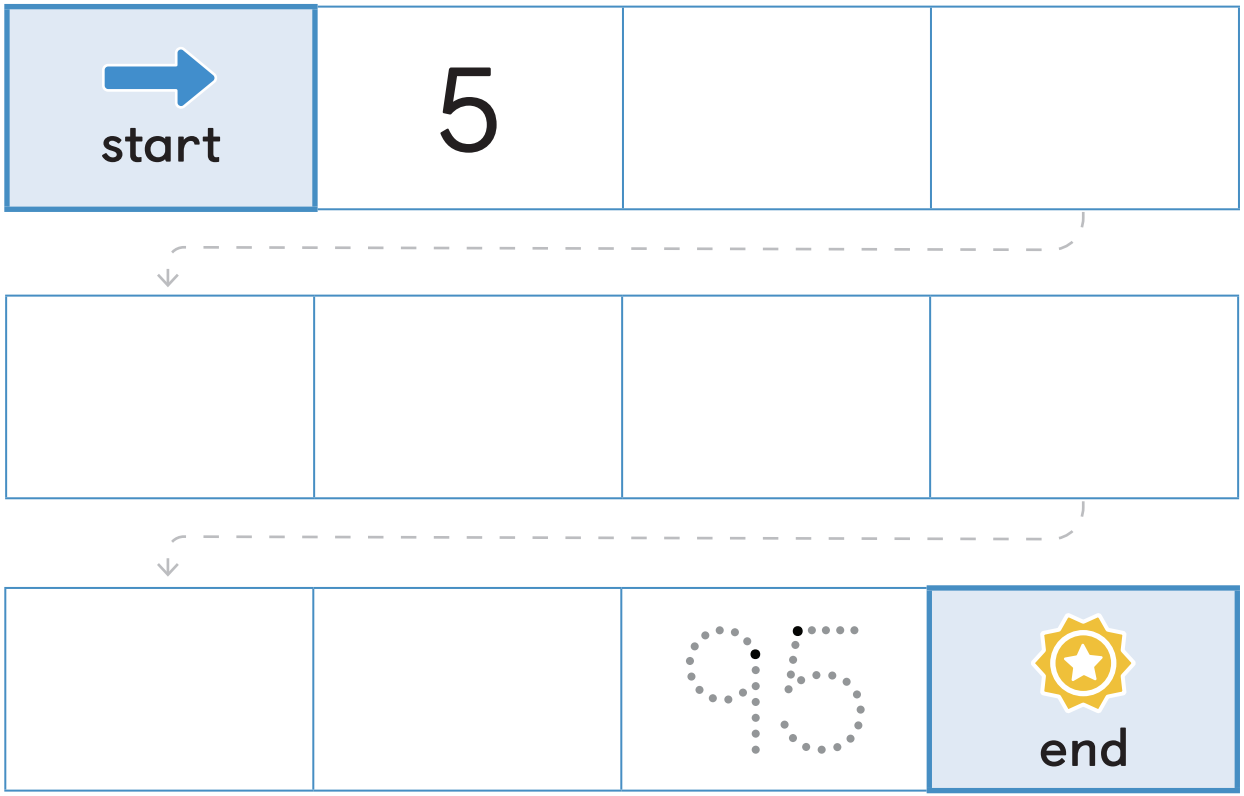
Stage 2



CENTER
Gameboard C

Last Number Wins

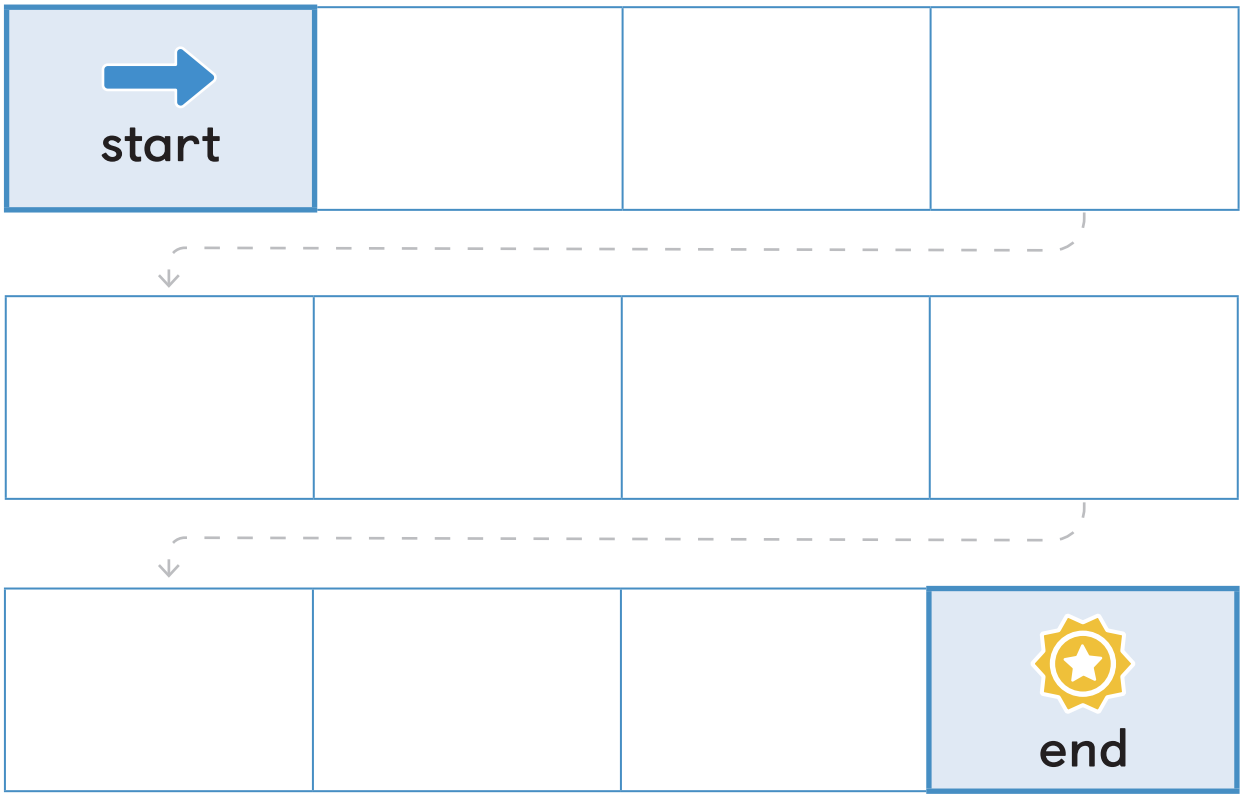
Stage 2



Last Number Wins

Stage 2

Choose your own starting number.

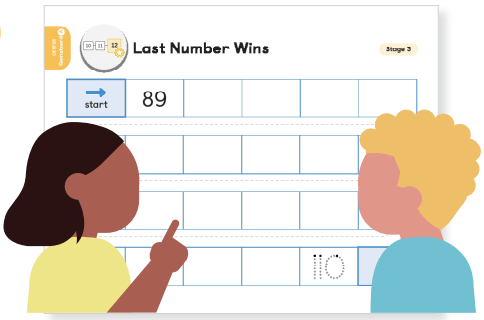


CENTER
Directions

Last Number Wins

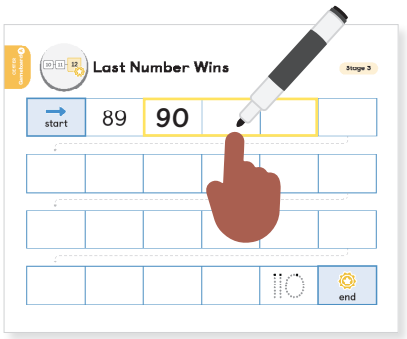
Stage 3

1



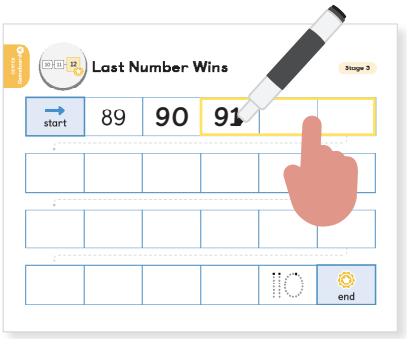
Choose a Gameboard.

2



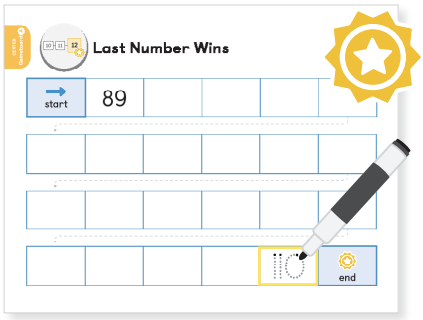
Player A: Record the next 1, 2, or 3 numbers on the Gameboard.

3



Take turns choosing how many numbers to record and recording them.

4



The player who records the last number on the Gameboard wins.

Let's count by 1 past 100.

Pairs

You'll need . . .

dry-erase markers

sheet protectors

Gameboards A–D

Last Number Wins

Stage 3

start	89				
					end

CENTER
Gameboard B

Last Number Wins

Stage 3

start	99				
				120	end

Last Number Wins

Stage 3

start	95				
					end

CENTER
Gameboard D

Last Number Wins

Stage 3

Choose your own starting number.

start

end

CENTER
Directions

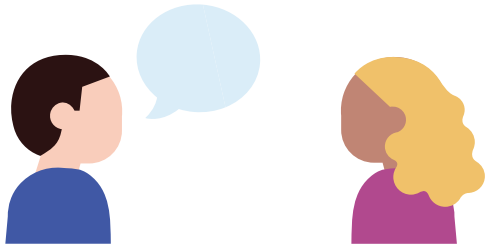
Math Stories

Stage 4

1

Choose a picture.
Record the letter on the Recording Sheet.

2



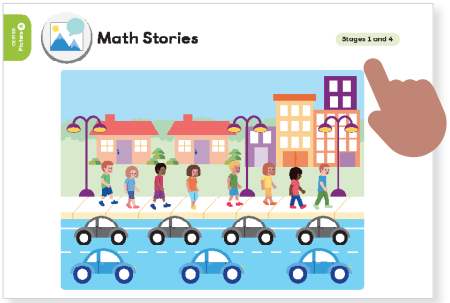
Partner A: Tell a story problem with addition or subtraction.

3

Picture	Equation
H	4 + 2 = 6

Partner B: Solve the problem and write an equation that matches.

4



Take turns.

Let's tell and solve addition and subtraction story problems about pictures.

Pairs

You'll need . . .

Math Stories Pictures, Stages 1 and 4

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Math Stories

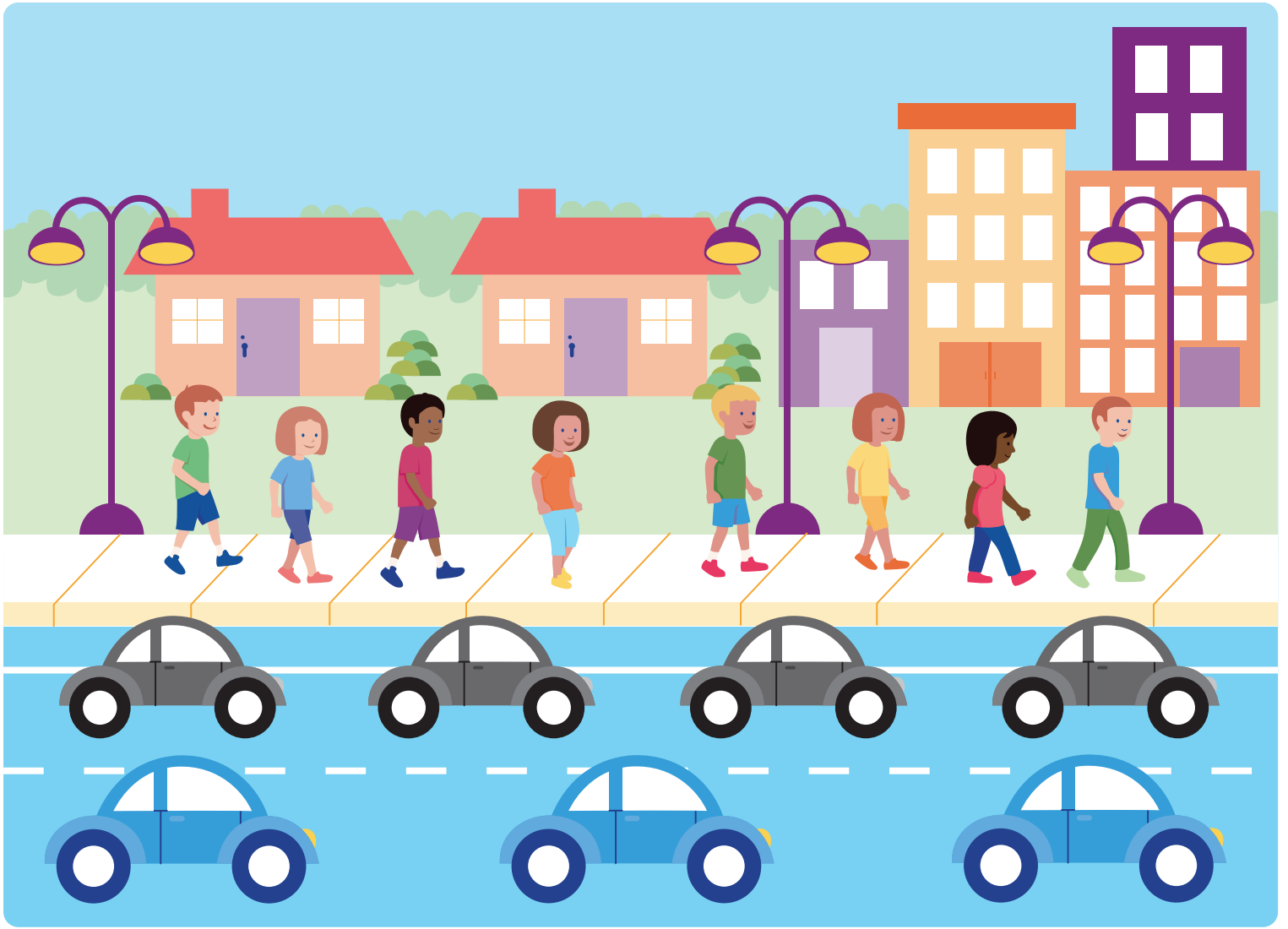
Stage 4

Picture	Equation

CENTER
Picture A

Math Stories

Stages 1 and 4



Math Stories

Stages 1 and 4

CENTER
Picture C

Math Stories

Stages 1 and 4

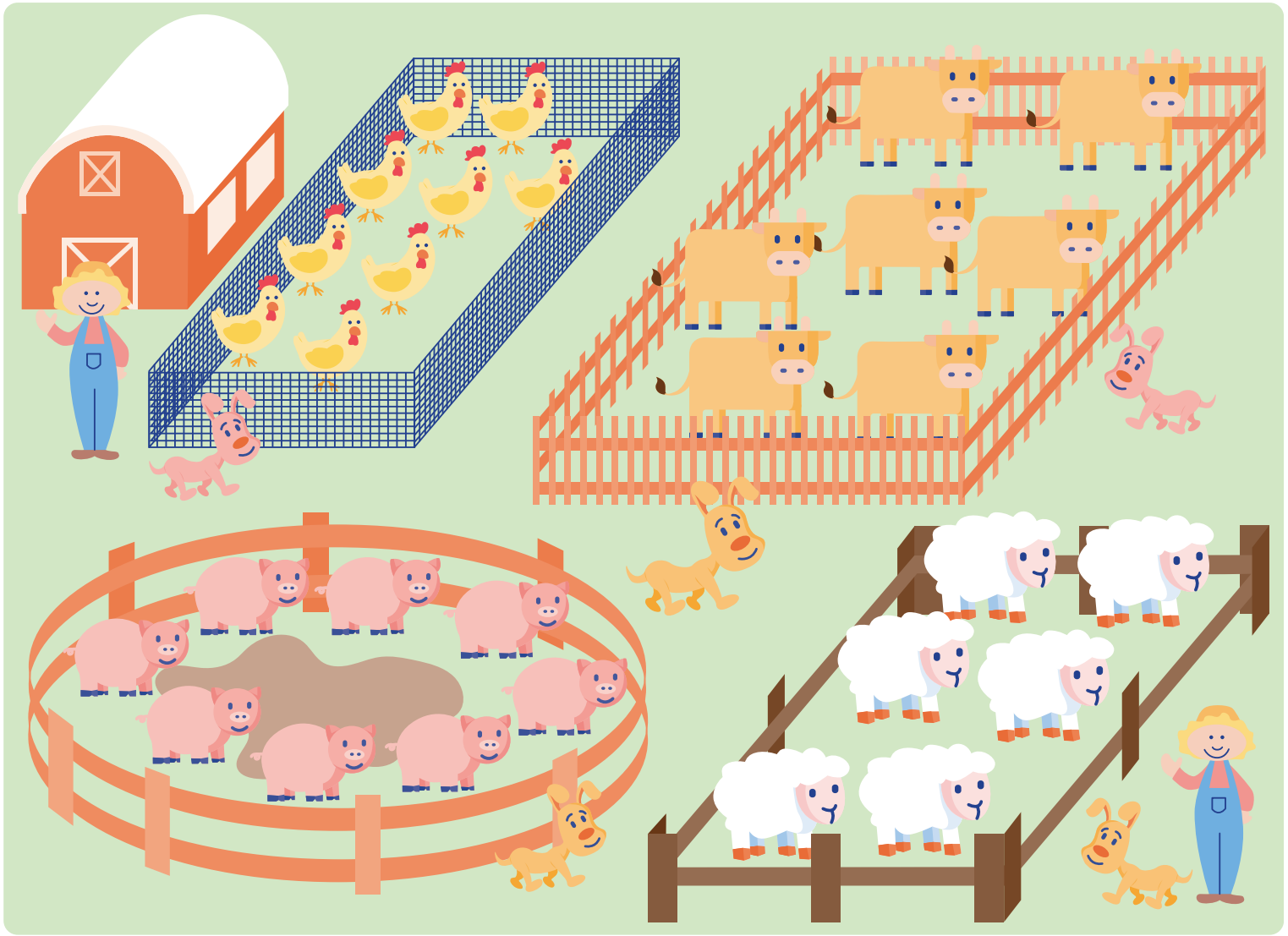
Math Stories

Stages 1 and 4

CENTER Picture E

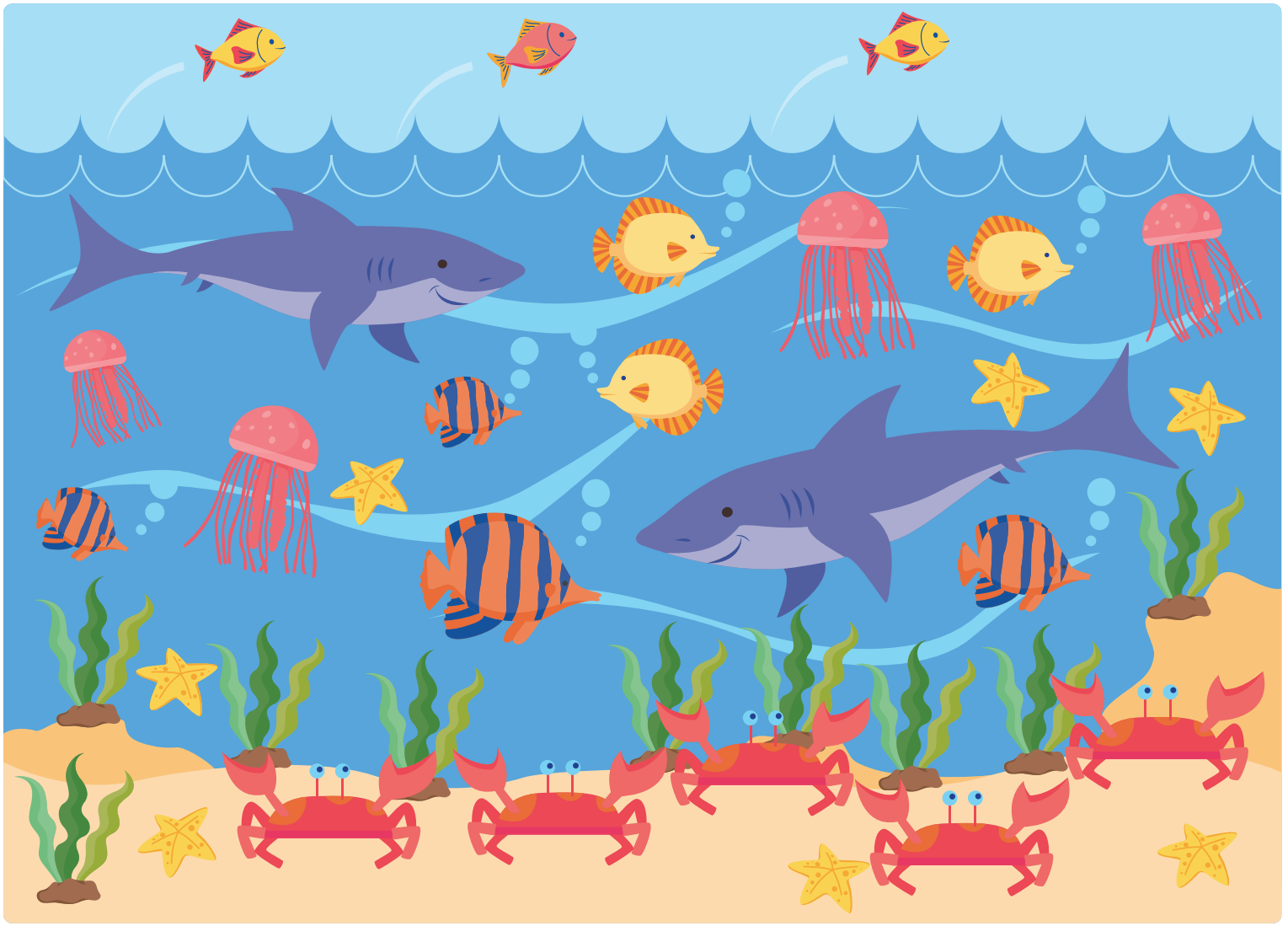
Math Stories

Stages 1 and 4



Math Stories

Stages 1 and 4



CENTER
Picture G

Math Stories

Stages 1 and 4

Math Stories

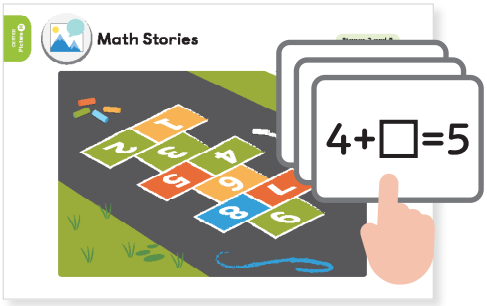
Stages 1 and 4

CENTER
Directions

Math Stories

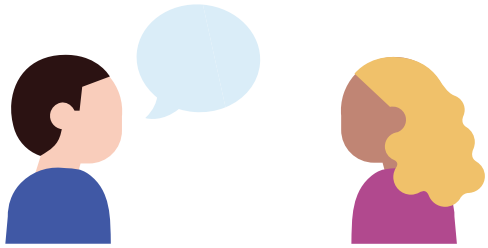
Stage 5

1



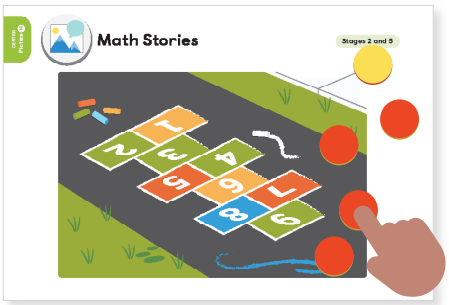
Choose a picture and draw an Equation Card.

2



Partner A: Tell a story that matches the equation and includes a question.

3



Partner B: Use tools to act out the story and answer the question.

4

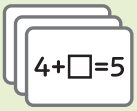
Take turns asking and answering.

Let's tell stories and ask questions about unknown numbers.

Pairs

You'll need . . .

counters or connecting cubes



Equation Cards, Sets 1 and 2

Math Stories Pictures, Stages 2 and 5

Equation Cards Within 10

Stage 5

CENTER
Set 1 Cards
(p. 1 of 2)

Directions: Make one copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

$4 + \square = 5$

Equation Cards Within 10

$\square + 3 = 5$

Equation Cards Within 10

$3 + 3 = \square$

Equation Cards Within 10

$2 + \square = 6$

Equation Cards Within 10

$\square + 2 = 7$

Equation Cards Within 10

$4 + 3 = \square$

Equation Cards Within 10

$5 + \square = 8$

Equation Cards Within 10

$\square + 7 = 8$

Equation Cards Within 10

Equation Cards Within 10

Stage 5

$5 + 4 = \square$

Equation Cards Within 10

$7 + \square = 9$

Equation Cards Within 10

$\square + 1 = 10$

Equation Cards Within 10

$2 + 8 = \square$

Equation Cards Within 10

$1 + \square = 2$

Equation Cards Within 10

$\square + 2 = 3$

Equation Cards Within 10

$2 + 2 = \square$

Equation Cards Within 10

$3 + \square = 4$

Equation Cards Within 10

Equation Cards Within 20

Stage 5

Directions: Make one copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

$\square + 6 = 18$

Equation Cards Within 20

$6 + 7 = \square$

Equation Cards Within 20

$7 + \square = 11$

Equation Cards Within 20

$\square + 6 = 12$

Equation Cards Within 20

$5 + 8 = \square$

Equation Cards Within 20

$4 + \square = 14$

Equation Cards Within 20

$\square + 2 = 15$

Equation Cards Within 20

$8 + 8 = \square$

Equation Cards Within 20

Equation Cards Within 20

Stage 5

CENTER
Set 2 Cards
(p. 2 of 2)

$6 + \square = 17$

Equation Cards Within 20

$\square + 10 = 18$

Equation Cards Within 20

$11 + 8 = \square$

Equation Cards Within 20

$\square + 10 = 20$

Equation Cards Within 20

$9 + \square = 20$

Equation Cards Within 20

$8 + 3 = \square$

Equation Cards Within 20

$\square + 11 = 16$

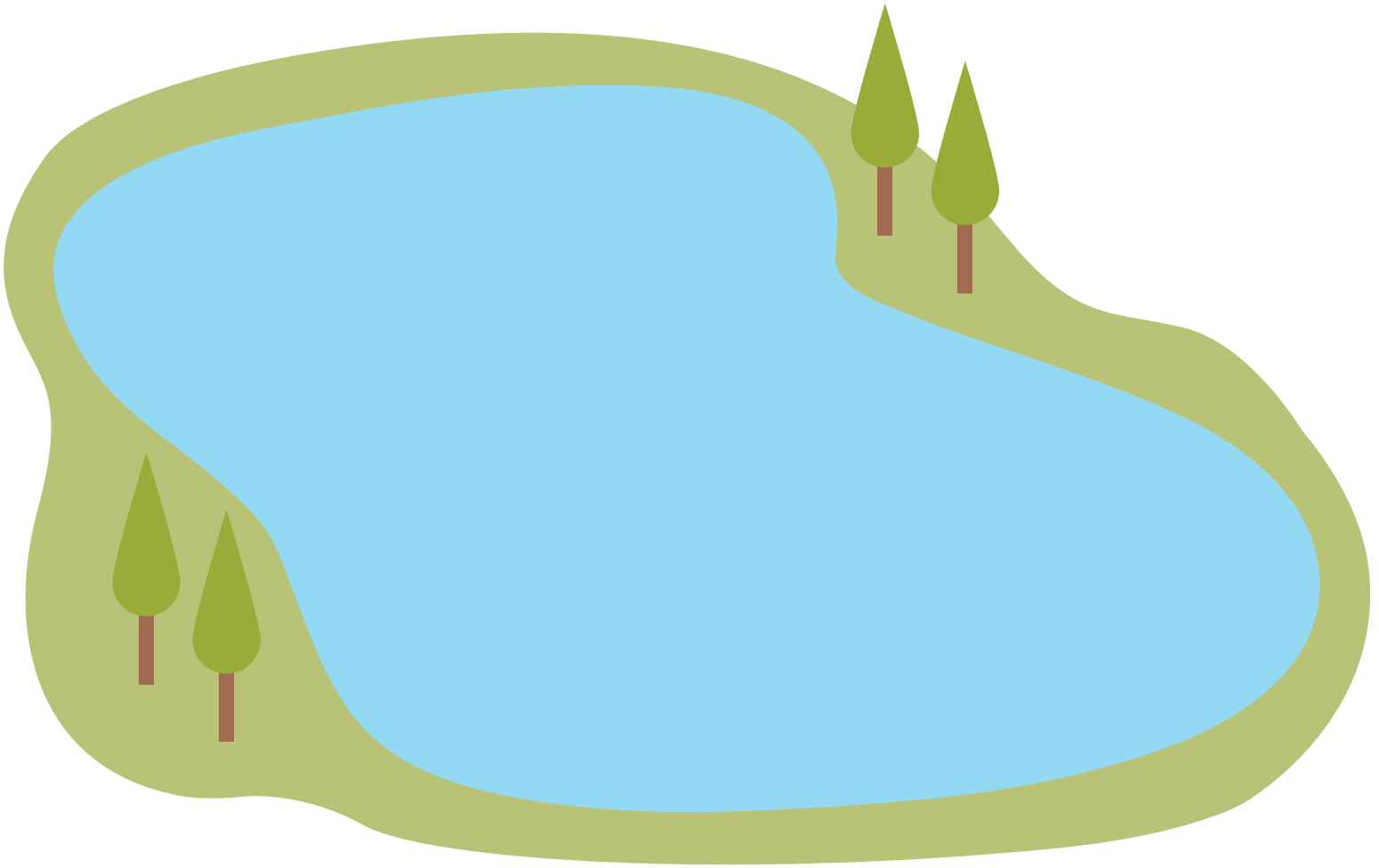
Equation Cards Within 20

$\square + 9 = 13$

Equation Cards Within 20

Math Stories

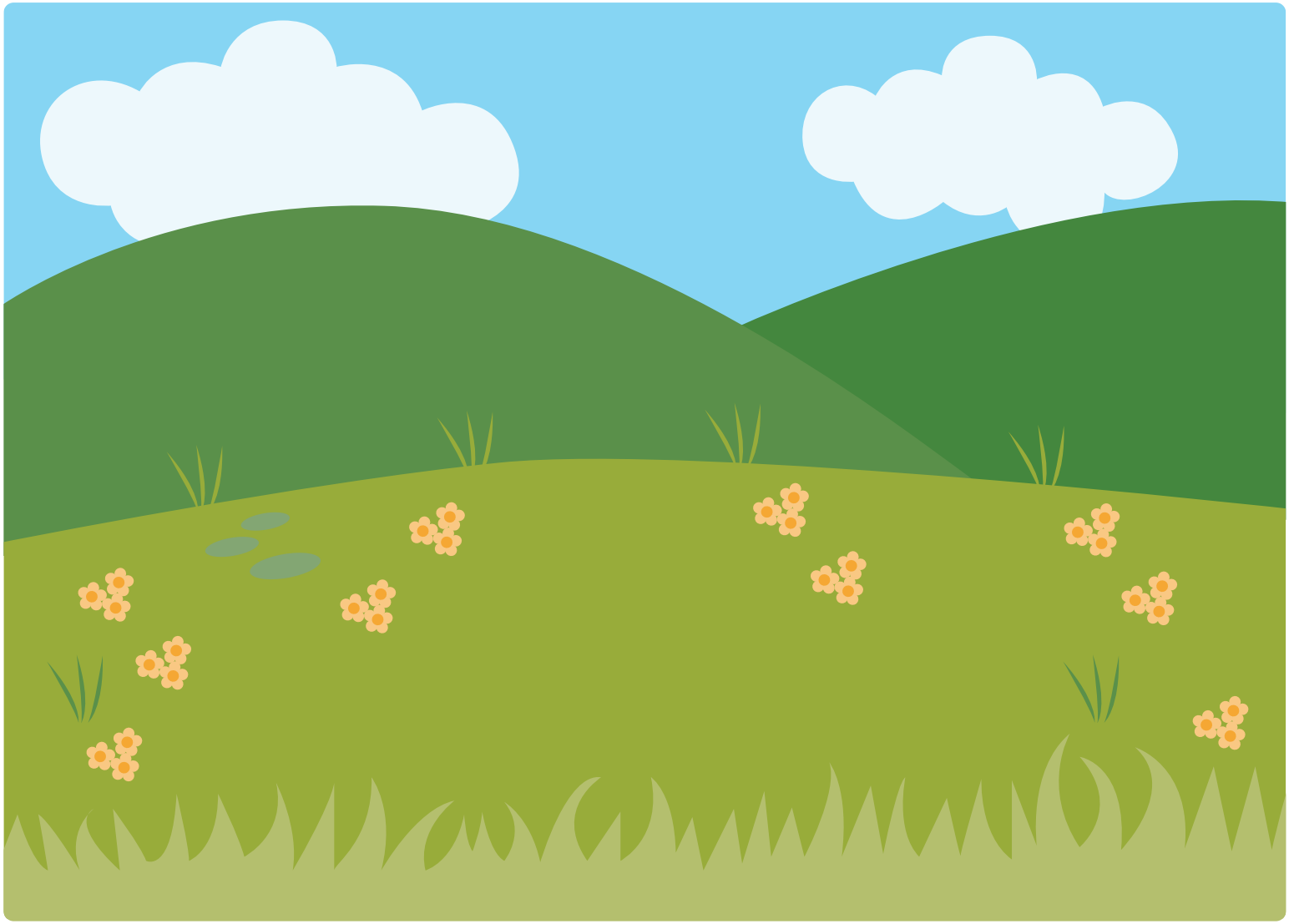
Stages 2 and 5



CENTER
Picture B

Math Stories

Stages 2 and 5



Math Stories

Stages 2 and 5

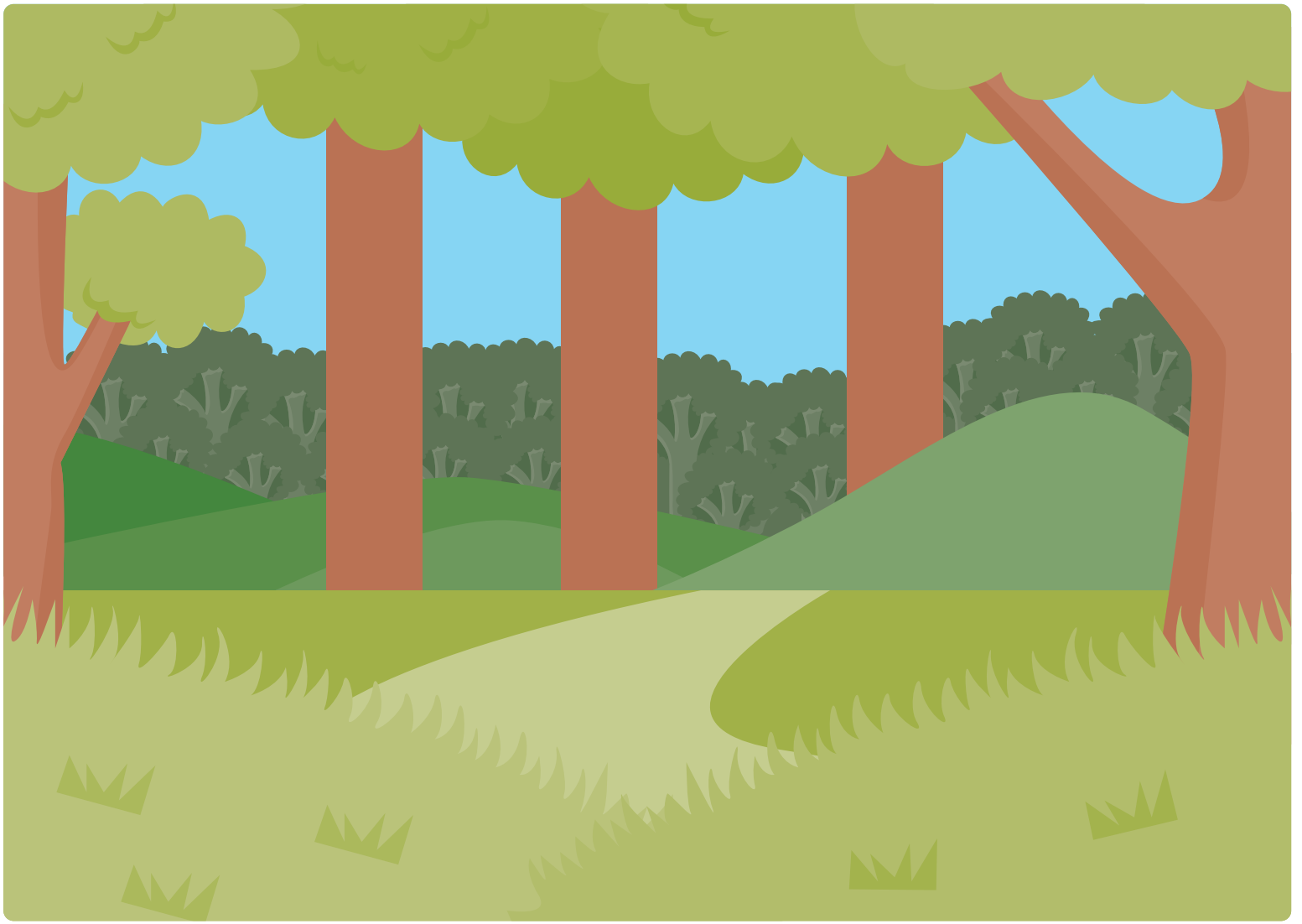
CENTER
Picture D

Math Stories

Stages 2 and 5

Math Stories

Stages 2 and 5



CENTER
Picture F

Math Stories

Stages 2 and 5

Math Stories

Stages 2 and 5

CENTER
Picture H

Math Stories

Stages 2 and 5

CENTER
Directions

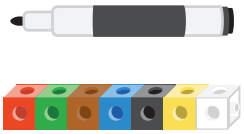
Measure and Compare

Stage 1

1

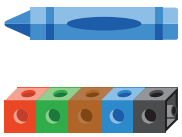
Choose two objects to measure.

2



Partner A: Measure the length of an object using cubes.

3



Partner B: Measure the length of the other object using cubes.

4

Equation	Difference
7 − 5 = 2	2 cubes

Find the difference in length between the two objects and write an equation.

Let's measure and find the difference in length between two objects.

Pairs

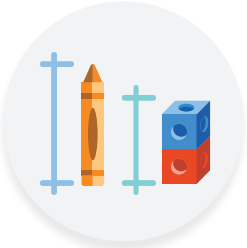
You'll need . . .

connecting cubes

objects to measure

Recording Sheet

CENTER
Recording Sheet



Name _____ Date _____

Measure and Compare

Stage 1

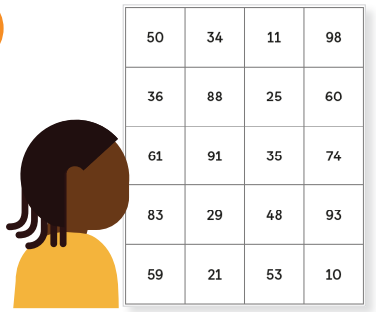
Object A	Object A length	Object B	Object B length	Equation	Difference
marker	7 cubes	crayon	5 cubes	7 − 5 = 2	2 cubes

CENTER
Directions

Mystery Number

Stage 1

1



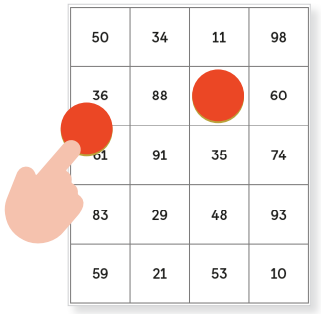
50	34	11	98
36	88	25	60
61	91	35	74
83	29	48	93
59	21	53	10

Player A: Choose a number on the Gameboard. Do not tell which one!

2

Player B: Ask your partner *yes* or *no* questions about the amounts of tens and ones.

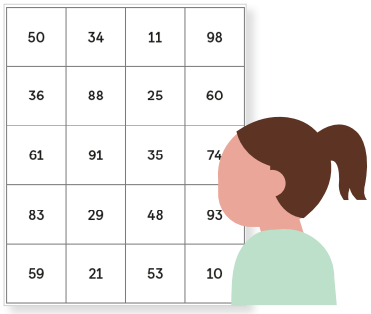
3



50	34	11	98
36	88		60
61	91	35	74
83	29	48	93
59	21	53	10

Player B: Cover up numbers that are *not* correct. Tell the number when you know it.

4



50	34	11	98
36	88	25	60
61	91	35	74
83	29	48	93
59	21	53	10

Take turns choosing a mystery number and asking questions.

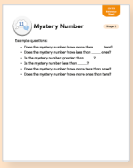
Let's use clues to guess two-digit numbers.

Pairs

You'll need . . .

two-color counters

Gameboard A or B



Reference Sheet

CENTER
Gameboard A

Mystery Number

Stage 1

50	34	11	98
36	88	25	60
61	91	35	74
83	29	48	93
59	21	53	10

Mystery Number

Stage 1

60	43	10	89
63	88	52	16
70	19	53	47
38	92	25	96
85	12	35	77

CENTER
Reference Sheet

Mystery Number

Stage 1

Example questions:

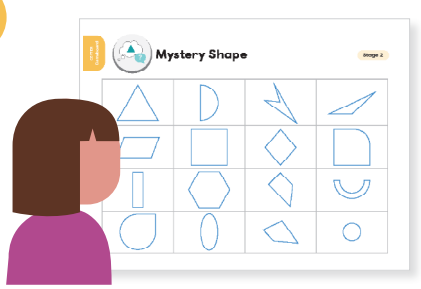
- Does the mystery number have more than _____ tens?
- Does the mystery number have less than _____ ones?
- Is the mystery number greater than _____?
- Is the mystery number less than _____?
- Does the mystery number have more tens than ones?
- Does the mystery number have more ones than tens?

CENTER
Directions

Mystery Shape

Stage 2

1

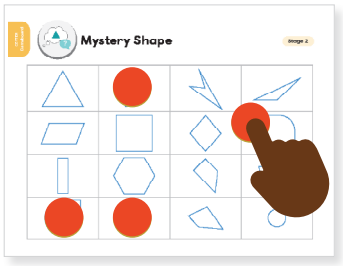


Player A: Choose a shape on the board. Don't tell which one!

2

Player B: Ask your partner *yes* or *no* questions.

3



Player B: Cover up shapes that are *not* the mystery shape. Tell your partner the shape when you know it.

4

Take turns choosing a mystery shape and asking questions.

Let's find the mystery shape.

Pairs

You'll need . . .

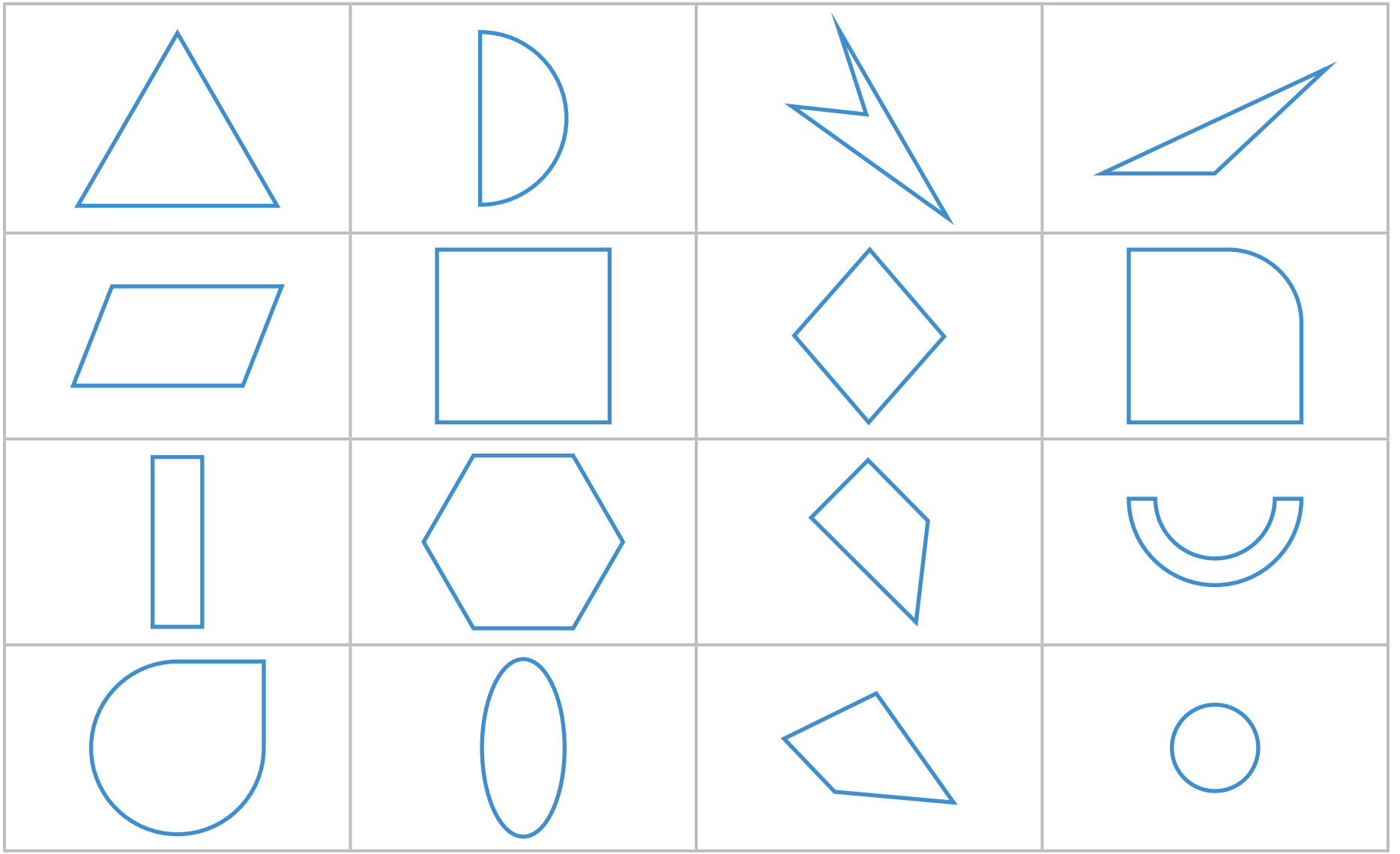
counters

Gameboard

CENTER
Gameboard

Mystery Shape

Stage 2

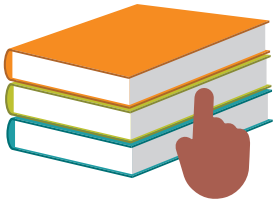


CENTER
Directions

Picture Books

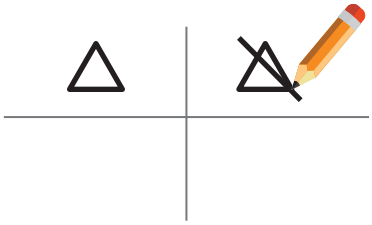
Stage 3

1



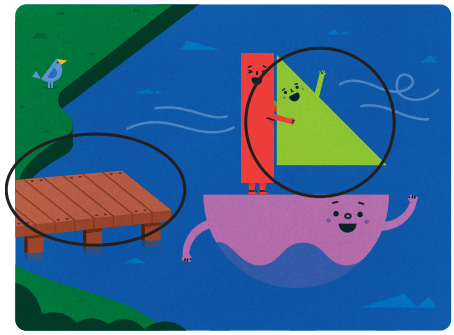
Choose a book.

2



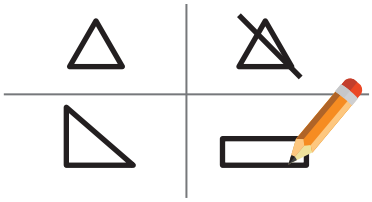
Write two categories.

3



Look for shapes.

4

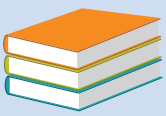


Sort the shapes into categories, and record how you sorted them.

Let's find shapes and sort them.

Pairs

You'll need . . .



picture books

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Picture Books

Stage 3

Sort the shapes you find into categories.

Words you can use

Equal parts	Not equal parts	Flat
Rectangles	Not rectangles	Solid

Shake and Spill

Stage 2

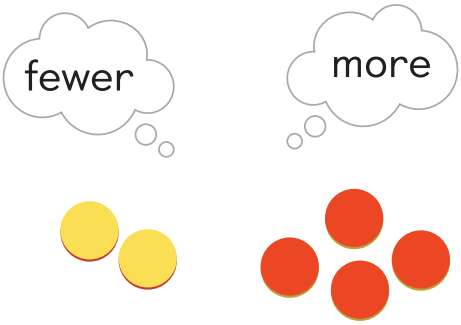
1

Put some counters in your cup.

2

Shake the cup and spill the counters.

3



Tell your partner which color has *more* and which color has *fewer*.

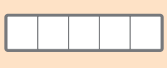
4

Take turns.

Let's compare.

Pairs

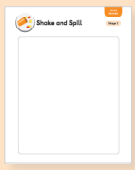
You'll need . . .



5-frames

10 two-color counters

cup



Work Mat

Shake and Spill

Stage 3

1

Put some counters in your cup.

2

Shake the cup and spill the counters.

3

Record how many red counters, how many yellow counters, and the total.

4

Take turns.

Let's figure out how many red counters, yellow counters, and the total.

Pairs

You'll need . . .

10 two-color counters

cup

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

Stage 3 (Words and Numbers)

Words and numbers	Total counters
☐ and ☐	
☐ and ☐	
☐ and ☐	
☐ and ☐	

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

Stage 3 (Expressions)

Expression	Total counters
☐ + ☐	
☐ + ☐	
☐ + ☐	
☐ + ☐	
☐ + ☐	
☐ + ☐	

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

Stage 3 (Equations)

Equation
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐

Shake and Spill

Stage 4

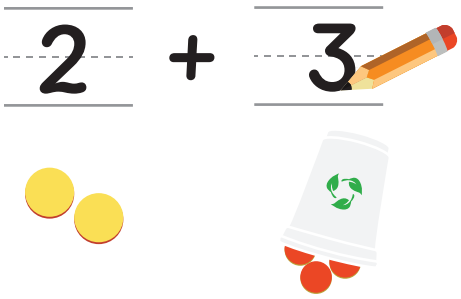
1

Put the 5 counters in the cup, shake the cup, spill the counters, and cover the red counters.

2

Show your partner. Ask, "How many are under the cup?"

3



Record how many yellow and how many red.

4

Take turns.

Let's find how many counters are covered.

Pairs

You'll need . . .

5 two-color counters

cup

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

Stage 4

Total counters	Expression
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐

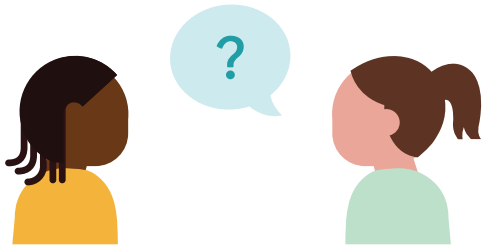
Shake and Spill

Stage 5

1

Shake the cup, spill the counters, and then cover the red counters.

2



Show your partner. Ask, "How many are under the cup?"

3

$$\underline{\quad 2 \quad} + \underline{\quad 8 \quad}$$

Write an expression to represent the counters.

4

Take turns.

Let's find how many counters are covered.

Pairs

You'll need . . .

10 two-color counters

cup

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

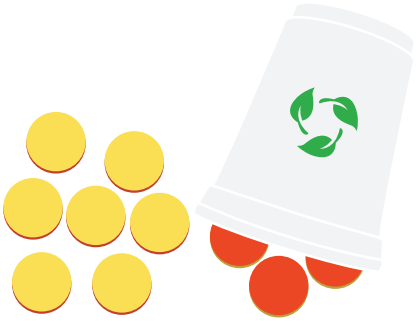
Stage 5

Total counters	Expression
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐
	☐ + ☐

Shake and Spill

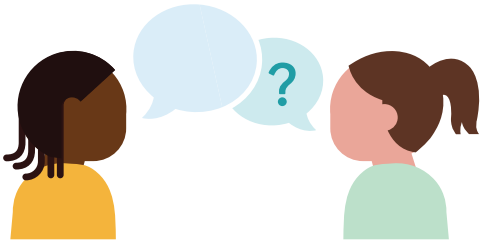
Stage 6

1



Shake the cup, spill the counters, and then cover the red counters.

2



Show your partner. Ask, "How many are under the cup?"

3

7 + 13 = 20

Write an equation to represent the counters.

4

Take turns.

Let's find how many counters are covered.

Pairs

You'll need . . .

20 two-color counters

cup

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Shake and Spill

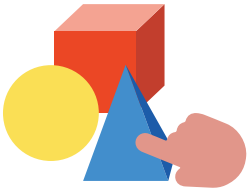
Stage 6

Round	Equation
1	☐ + ☐ = ☐
2	☐ + ☐ = ☐
3	☐ + ☐ = ☐
4	☐ + ☐ = ☐
5	☐ + ☐ = ☐
6	☐ + ☐ = ☐
7	☐ + ☐ = ☐

Solid Shapes

Stage 3

1

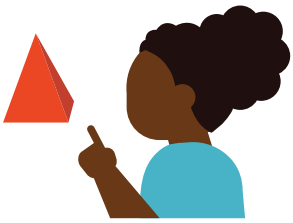


Player A: Choose a solid shape. Do not show or tell your partner which shape you chose.

2

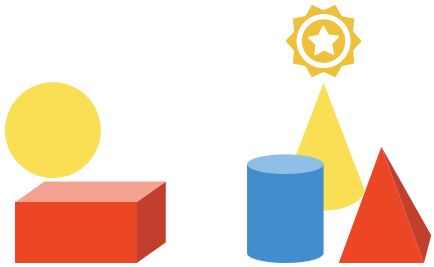
Describe the shape to your partner.

3



Player B: Guess the shape. If you are correct, keep the shape.

4



Take turns. The player with more shapes wins.

Let's describe solid shapes so your partner can find them.

Pairs

You'll need . . .

geosolids, 2 sets

Work Mat

Solid Shapes

Stage 4

1

Player A: Put 1 solid shape in the bag. Do not show your partner.

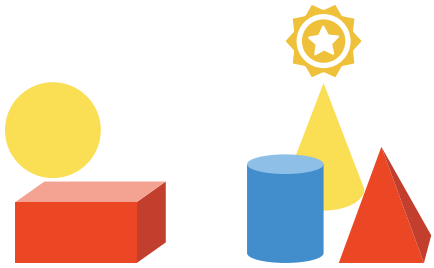
2

Player B: Feel the shape in the bag and guess what it is.

3

If you are correct, keep the shape.

4



Take turns. The player with more shapes wins.

Let's guess the solid shape without looking at it.

Pairs

You'll need . . .

geosolids, 2 sets

paper bag

CENTER
Directions

20 Target Numbers

Stage 1

1

Draw a number card.

2

$55 + \boxed{4} = \boxed{59}$

Add that number to your starting number and write an equation.

3

$55 + \boxed{4} = \boxed{59}$

$\boxed{59} + \boxed{} = \boxed{}$

The sum from the previous equation is the starting number in the new equation.

4

95

88 92

Take turns. The player with a final sum closer to 95 wins.

Let's add one-digit numbers to two-digit numbers.

Pairs

You'll need . . .

Number Cards, 1–9

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Target Numbers

Stage 1

Equation
55 + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐
☐ + ☐ = ☐

CENTER
Directions

Target Numbers

Stage 2

1

Draw a number card. Choose to add that number of *tens* or *ones*.

2

4 tens

___ ones

$25 + 40 = 65$

Add that number to your starting number and write an equation.

3

$25 + 40 = 65$

$65 + \square = \square$

The sum from the previous equation is the starting number in the new equation.

4

95

88 92

Take turns. The player with a final sum closer to 95 wins.

Let's add tens or ones to two-digit numbers.

Pairs

You'll need . . .

Number Cards, 1–9

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

Target Numbers

Stage 2

Choose tens or ones	Equation
_____ tens _____ ones	25 + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐

CENTER
Directions

20 Target Numbers

Stage 3

1

Draw 3 number cards. Choose 1 card to represent *tens* and 1 card to represent *ones*.

2

4 tens
2 ones

0 + 42 = 42

Add that number to your starting number and write an equation.

3

0 + 42 = 42

42 + ☐ = ☐

The sum from the previous equation is the starting number in the new equation.

4

95

88 92

Take turns. The player with a final sum closer to 95 wins.

Let's add two-digit numbers to two-digit numbers.

Pairs

You'll need . . .

Number Cards, 0–9

Recording Sheet

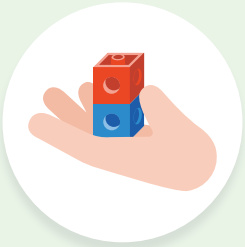
Name _____ Date _____

CENTER
Recording Sheet

Target Numbers

Stage 3

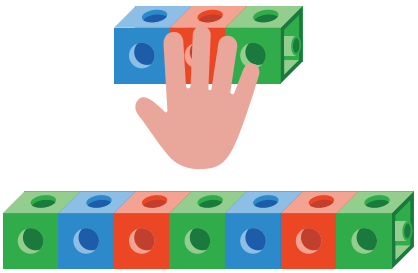
Choose tens and ones	Equation
_____ tens _____ ones	0 + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐
_____ tens _____ ones	☐ + ☐ = ☐



What's Behind My Back?

Stage 2

1



Player A: Hide the tower of 10 and break off some cubes. Show your partner the rest.

2

$3 + \_ = 10$

Player B: Write an equation with an unknown addend to represent the cubes.

3

Player A: Ask, "How many are behind my back? How do you know?"

4

$3 + \_ = 10$

Player B: Complete the equation. Then players switch roles and repeat.

Let's figure out the missing part to make 10.

Pairs

You'll need . . .

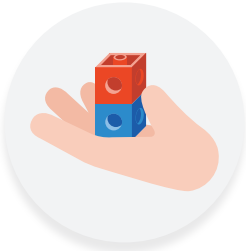
10-frame

10 connecting cubes

Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet

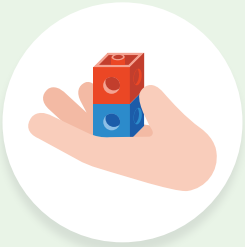


What's Behind My Back?

Stage 2

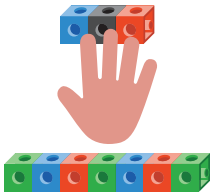
Round	Equation
1	☐ + ☐ = ☐
2	☐ + ☐ = ☐
3	☐ + ☐ = ☐
4	☐ + ☐ = ☐
5	☐ + ☐ = ☐
6	☐ + ☐ = ☐

Stage 4



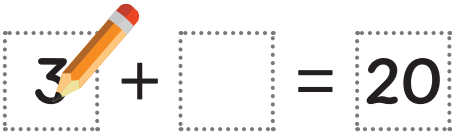
What's Behind My Back?

1



Player A: Hide 2 towers of 10 cubes behind your back and break off some cubes. Show your partner one of the parts.

2



Player B: Write an equation with an unknown addend to represent the cubes.

3

Player A: Ask, "How many are behind my back? How do you know?"

4

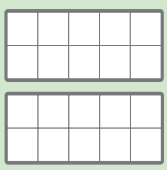
Player B: Complete the equation. Then players switch roles and repeat.

Let's figure out the missing part to make 20.

Pairs

You'll need . . .

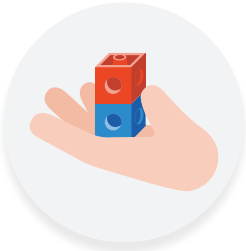

20 connecting cubes


double 10-frame


Recording Sheet

Name _____ Date _____

CENTER
Recording Sheet



What's Behind My Back?

Stage 4

Round	Equation
1	☐ + ☐ = ☐
2	☐ + ☐ = ☐
3	☐ + ☐ = ☐
4	☐ + ☐ = ☐
5	☐ + ☐ = ☐
6	☐ + ☐ = ☐

Work Mats, Cards, and Grids

Number Cards, 0–10

Directions: Make as many copies as are needed; four copies of this page creates one set of cards. Cut out the cards to create a set of cards that will be used throughout the year.

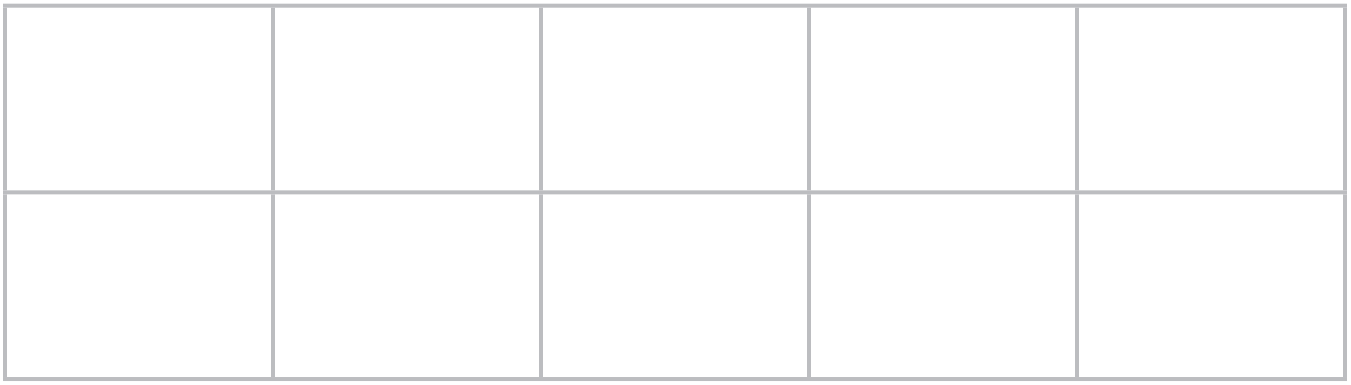
1 Number Cards, 0–10	2 Number Cards, 0–10	3 Number Cards, 0–10
4 Number Cards, 0–10	5 Number Cards, 0–10	6 Number Cards, 0–10
7 Number Cards, 0–10	8 Number Cards, 0–10	9 Number Cards, 0–10
10 Number Cards, 0–10	0 Number Cards, 0–10	

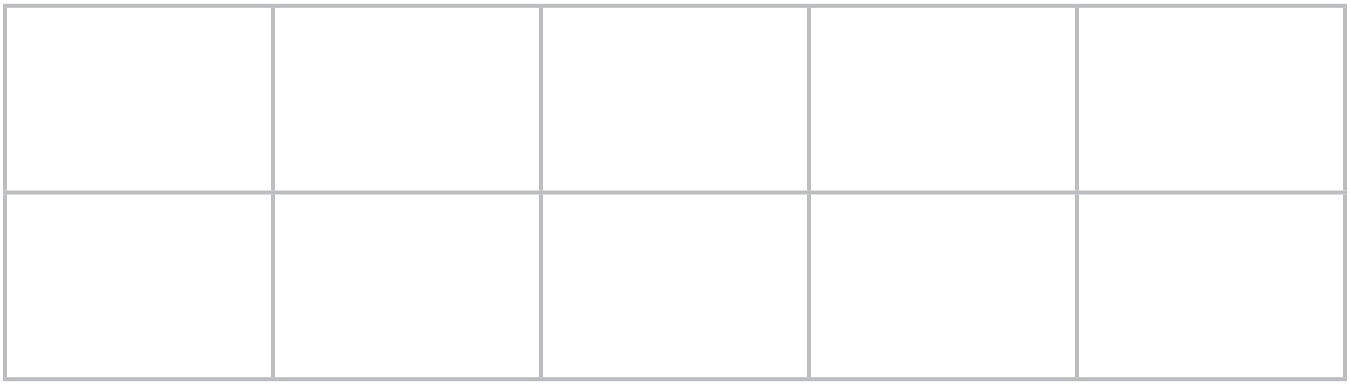
Number Cards, Multiples of 10

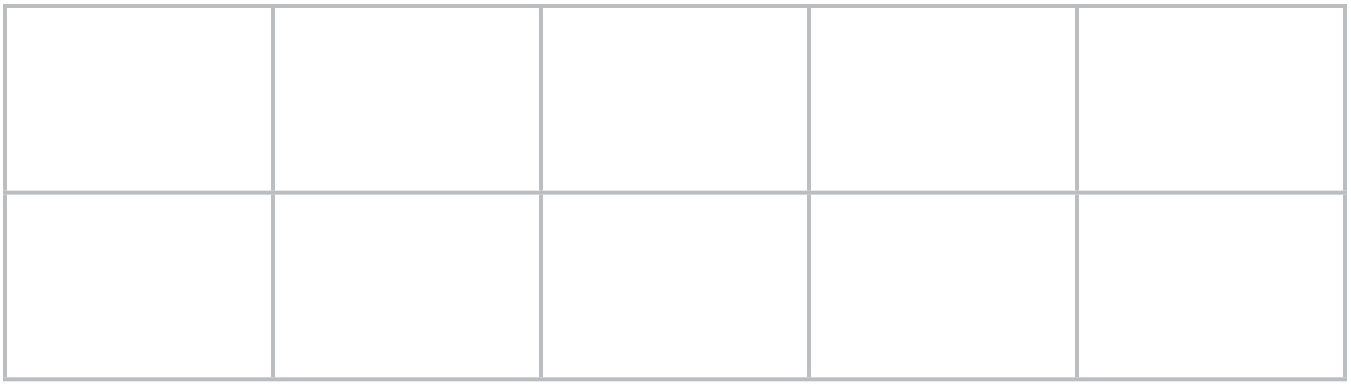
Directions: Make as many copies as are needed; three copies of this page creates one set of cards. Cut out the cards to create a set of cards that will be used throughout the year.

0 Number Cards, Multiples of 10	10 Number Cards, Multiples of 10	20 Number Cards, Multiples of 10
30 Number Cards, Multiples of 10	40 Number Cards, Multiples of 10	50 Number Cards, Multiples of 10
60 Number Cards, Multiples of 10	70 Number Cards, Multiples of 10	80 Number Cards, Multiples of 10
90 Number Cards, Multiples of 10		

10-frames



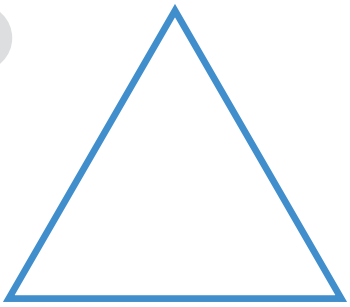




Shape Cards, Grade 1

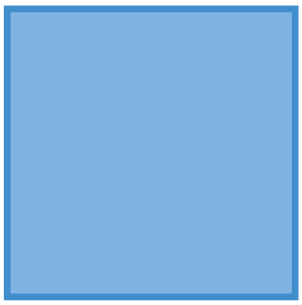
Directions: Cut out to create a set of cards that will be used throughout the year.

A



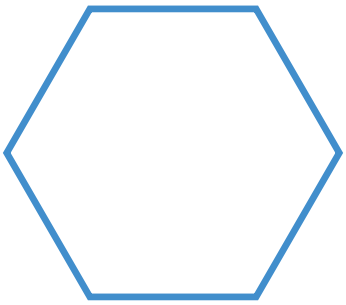
Shape Cards, Grade 1

B



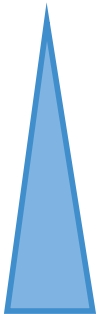
Shape Cards, Grade 1

C



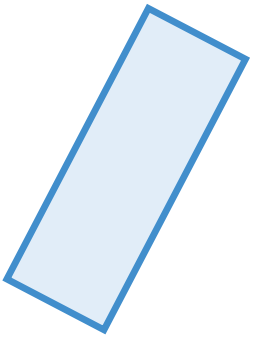
Shape Cards, Grade 1

D



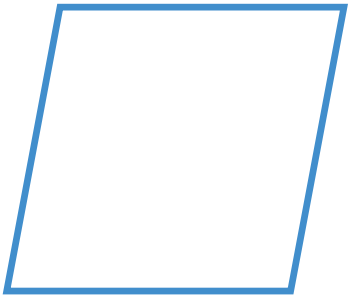
Shape Cards, Grade 1

E



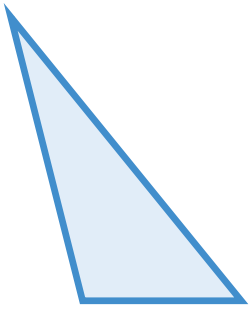
Shape Cards, Grade 1

F



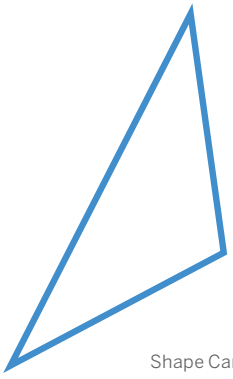
Shape Cards, Grade 1

G



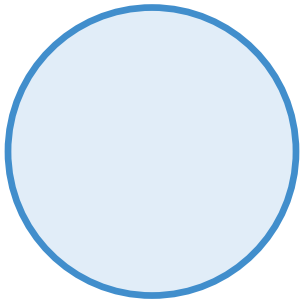
Shape Cards, Grade 1

H



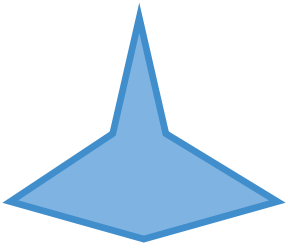
Shape Cards, Grade 1

I



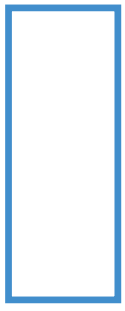
Shape Cards, Grade 1

J



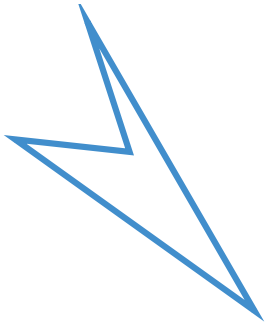
Shape Cards, Grade 1

K



Shape Cards, Grade 1

L



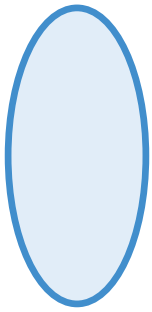
Shape Cards, Grade 1

Shape Cards, Grade 1

M

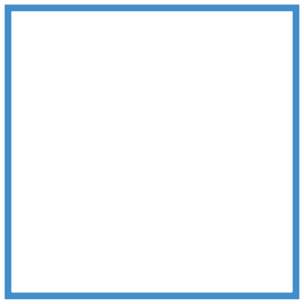
Shape Cards, Grade 1

N



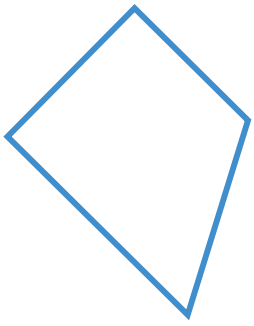
Shape Cards, Grade 1

O



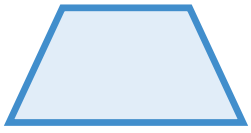
Shape Cards, Grade 1

P



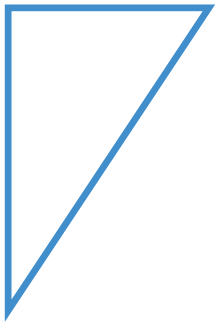
Shape Cards, Grade 1

Q



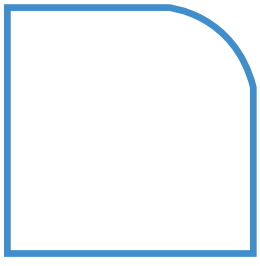
Shape Cards, Grade 1

R



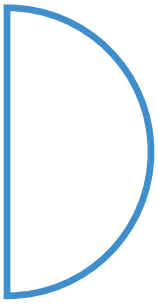
Shape Cards, Grade 1

S



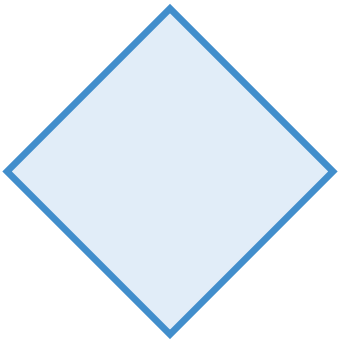
Shape Cards, Grade 1

T



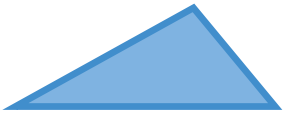
Shape Cards, Grade 1

U



Shape Cards, Grade 1

V

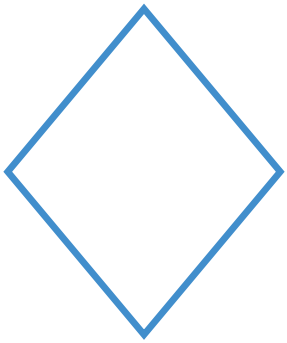


Shape Cards, Grade 1

W

Shape Cards, Grade 1

X



Shape Cards, Grade 1

Addition Expressions (up to 10)

CENTER
Addition Expression Cards
(p. 1 of 4)

Directions: Make 1 copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

1 + 0 Addition Expressions	0 + 7 Addition Expressions	2 + 1 Addition Expressions
5 + 0 Addition Expressions	0 + 3 Addition Expressions	3 + 1 Addition Expressions
10 + 0 Addition Expressions	0 + 9 Addition Expressions	4 + 1 Addition Expressions
1 + 1 Addition Expressions	1 + 2 Addition Expressions	5 + 1 Addition Expressions
1 + 3 Addition Expressions	6 + 1 Addition Expressions	1 + 7 Addition Expressions

Addition Expressions (up to 10)

1 + 4 Addition Expressions	7 + 1 Addition Expressions	1 + 8 Addition Expressions
1 + 5 Addition Expressions	8 + 1 Addition Expressions	1 + 9 Addition Expressions
1 + 6 Addition Expressions	9 + 1 Addition Expressions	2 + 2 Addition Expressions
2 + 3 Addition Expressions	3 + 2 Addition Expressions	2 + 6 Addition Expressions
2 + 4 Addition Expressions	4 + 2 Addition Expressions	2 + 7 Addition Expressions

Addition Expressions (up to 10)

4 + 6 Addition Expressions	6 + 4 Addition Expressions	2 + 8 Addition Expressions
2 + 5 Addition Expressions	5 + 2 Addition Expressions	3 + 3 Addition Expressions
6 + 2 Addition Expressions	4 + 3 Addition Expressions	3 + 5 Addition Expressions
7 + 2 Addition Expressions	5 + 3 Addition Expressions	3 + 6 Addition Expressions
8 + 2 Addition Expressions	6 + 3 Addition Expressions	3 + 7 Addition Expressions

Addition Expressions (up to 10)

3 + 4 Addition Expressions	7 + 3 Addition Expressions	4 + 4 Addition Expressions
4 + 5 Addition Expressions	5 + 5 Addition Expressions	5 + 4 Addition Expressions

Subtraction Expressions (up to 10)

Directions: Make 1 copy per pair of students. Pre-cut the cards and distribute them so that each pair receives one set of cards.

8 – 6 Subtraction Expressions	8 – 4 Subtraction Expressions	9 – 9 Subtraction Expressions
8 – 2 Subtraction Expressions	8 – 7 Subtraction Expressions	9 – 7 Subtraction Expressions
9 – 5 Subtraction Expressions	9 – 8 Subtraction Expressions	9 – 6 Subtraction Expressions
9 – 4 Subtraction Expressions	7 – 4 Subtraction Expressions	7 – 7 Subtraction Expressions
9 – 3 Subtraction Expressions	7 – 3 Subtraction Expressions	7 – 6 Subtraction Expressions

Subtraction Expressions (up to 10)

9 – 1 Subtraction Expressions	7 – 1 Subtraction Expressions	7 – 2 Subtraction Expressions
7 – 5 Subtraction Expressions	9 – 2 Subtraction Expressions	6 – 5 Subtraction Expressions
6 – 6 Subtraction Expressions	5 – 5 Subtraction Expressions	6 – 2 Subtraction Expressions
6 – 4 Subtraction Expressions	5 – 4 Subtraction Expressions	6 – 1 Subtraction Expressions
6 – 3 Subtraction Expressions	5 – 3 Subtraction Expressions	3 – 3 Subtraction Expressions

Subtraction Expressions (up to 10)

5 – 1 Subtraction Expressions	3 – 1 Subtraction Expressions	4 – 1 Subtraction Expressions
4 – 4 Subtraction Expressions	5 – 2 Subtraction Expressions	3 – 2 Subtraction Expressions
4 – 3 Subtraction Expressions	2 – 1 Subtraction Expressions	10 – 1 Subtraction Expressions
4 – 2 Subtraction Expressions	2 – 2 Subtraction Expressions	1 – 1 Subtraction Expressions
10 – 7 Subtraction Expressions	10 – 2 Subtraction Expressions	10 – 6 Subtraction Expressions

Subtraction Expressions (up to 10)

10 – 5 Subtraction Expressions	10 – 9 Subtraction Expressions	10 – 8 Subtraction Expressions
10 – 0 Subtraction Expressions	10 – 3 Subtraction Expressions	10 – 4 Subtraction Expressions

Work Mat