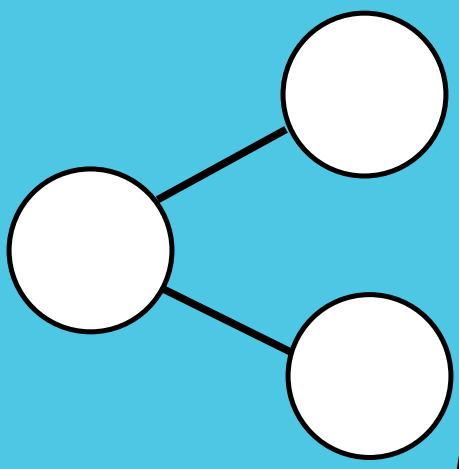
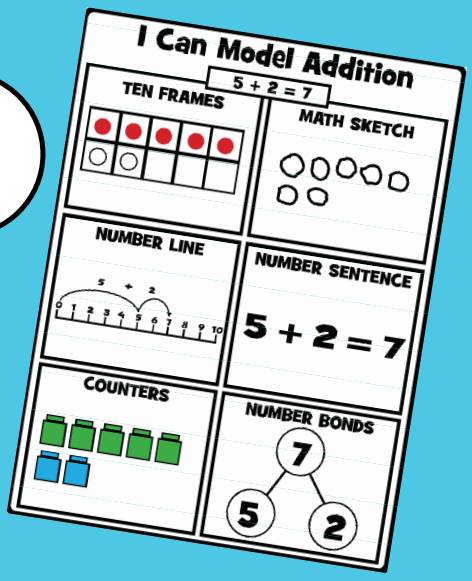
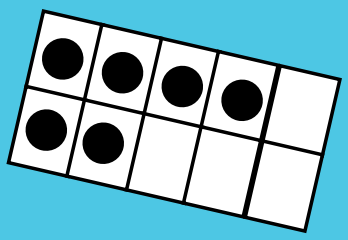
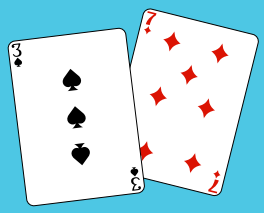
GUIDED MATH TEACHER'S

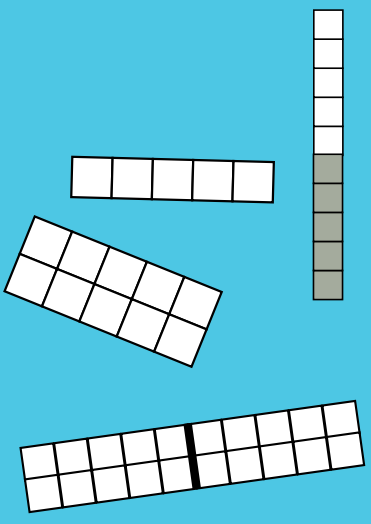
ADDITION TOOL KIT





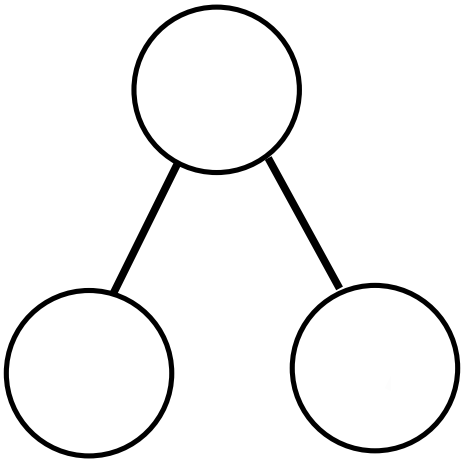


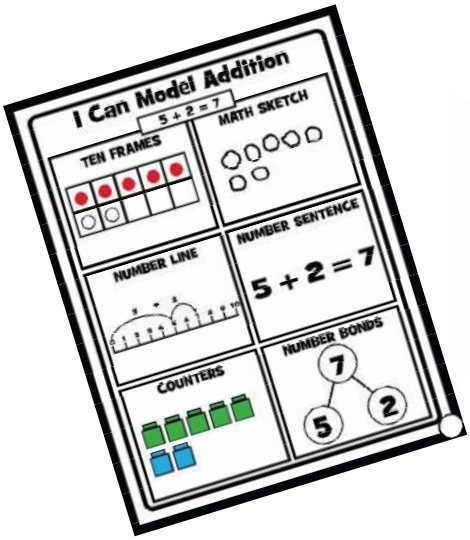




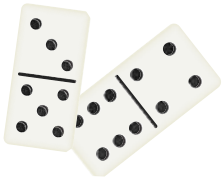
DR. NICKI NEWTON

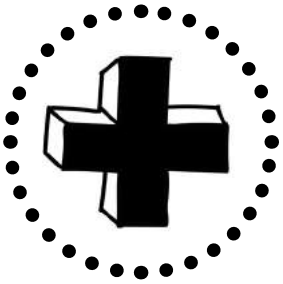
Math Fact Fluency Playground

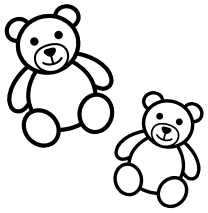


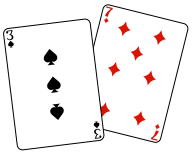


ADDITION TOOL KIT









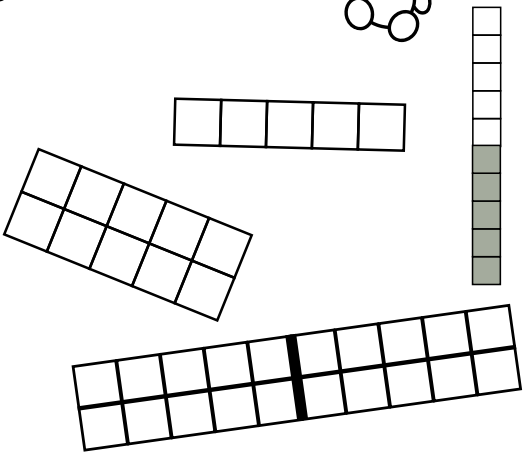


TABLE OF CONTENTS

Progression of Addition p.1
I Can Reach My Goals p.3
I Can Use Addition Strategies p.4
I Can Model Addition p.5
Vocabulary Cards p.6
Mathematician Think Space p.10
Work Mat p.11
Five Frames p.13
Ten Frames p.15
Twenty Frames p.18
Double Ten Frames p.20
Addition Template p.21
Dice Template p.22
Flashcard Template p.27
Playing Cards Template p.29
Board Game Template p.30
Fact Family Triangle p.31
Addition Number Paths p.32
Part Part Whole Mat p.36
Hundred Chart Addition p.37
A Number Line p.39
Number Line to 10 p.41
Number Ladder to 10 p.43
Number Line to 20 p.44
Number Ladder to 20 p.45
Addition Chart p.46
Addition Table p.47
Circle Counters p.50
Bear Counters p.51
Penny Counters p.52
Cube Counters p.53
Spinners p.54
Tic Tac Toe p.60
Adding Within 10 p.61
Addition Mat p.63
Part Part Whole Mats p.78
Shut the Box p.79
Number Bonds p.80
Friends of 10 p.84
Composing and Decomposing p.85
Number Staircase p.87
Coloring 10 p.88
Number Houses p.89
Make 10 p.90
Part Part Whole p.91
Adding Within 10 (10 Frame) p.93
Missing Numbers to 10 p.117
Numbers 0 to 10 p.136
Bookmarks p.137
Reference p.150

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Welcome to this book!

I am so excited that you are here to share this with me. This is the everything you ever wanted, needed, thought you might need, never even knew that you needed mega book of guided math addition templates. This book is organized by the priority standards topics that you will teach in k-2 for adding and subtracting within 20. It is written as a k-2 book in the spirit of acceleration and differentiation. The templates are differentiated along the learning progression so that you can meet your students where they are in small groups.

How to Use this Book!

This book has templates that the teacher can use for guided math groups, whole class activities, workstations and homework! The teacher can pull the different templates and make a binder for each person in the group. In the binder, put the templates in sheet protectors or laminate them so they can be used over and over again! Each student will have their own binder and they can use it as needed!

Big Ideas/Priority Standards

This book is aligned to the Big Ideas/Priority standards in k-2. It can be used as a supplement to any program. We have created a variety of templates to address the variations in state standards. These templates will provide you a way to reach back to catch up as well as extend learning for those students who are ready to go to the next steps.

Learning Trajectories

Speaking of steps, we have based all of our templates with the learning trajectories in mind. A learning trajectory is a developmental path that shows the landscape of learning a particular concept. Clements and Sarama have written extensively about learning trajectories (www.learningtrajectories.org). In the front of each book, you will find the learning trajectories for the topic.

Guided Math

Guided Math is a way of teaching students in small groups. Small groups allow us to get up close and personal with our students and their learning. In a small guided math group, there should be no more than 3-5 students. Groups meet for 10-15 minutes. The focus is on DOING MATH. These templates help you to do just that! They provide a space for students to explore, think, talk and work. In the small guided math group, students will make sense of math through working with their peers, their teacher and the different math materials (thinking mats, manipulatives, vocabulary/language talk frames).

While students are working together, the teacher guides them, asks important questions and provides the necessary feedback on their attempts at making sense of the math so that they can make the necessary connections and corrections and build a deeper understanding of the math concepts. The learning spirals and children build on prior knowledge as they engage in new experiences. (Dewey 1933/1998; Piaget, 1972; Vygotsky, 1978; Bruner, 1973, 1990). In the guided math group, the student's should spend most of the time doing math rather than listening to the teacher talk about math.

Experiences are scaffolded in a way to maximize the learning opportunities. Students are working in their Zone of Proximal Development, meaning that they are working at a level that is just right, not too easy and not too difficult (Vygotsky, 1978). Through interaction with more capable peers, adults who are facilitating their learning and artifacts (in this case appropriately selected materials such as manipulatives, books, computer programs etc.), students make meaning of the math (Vygotsky).

Differentiated Instruction

As Coco Aguirre (my mentor teacher) had hanging above the threshold of her door, "If a student doesn't learn the way you teach, then teach the way they learn." This is a simple but powerful truth. Meet the children where they are and then take them to the next level. For me, differentiation is about always asking myself, "If they aren't getting it, what can I do differently?" These templates provide you an option to scaffold the learning so that all students have access to the grade level content!

Tomlinson (1999) speaks of how differentiated instruction results in academically responsive classrooms. In this type of classroom teachers are aware of the academic levels of their students and create curriculum designed to respond to their needs. Tomlinson stated that at its most basic level, differentiating instruction means "shaking up" what goes on in the classroom so that students have multiple options for taking in information, making sense of ideas, and expressing what they learn. In other words, a differentiated classroom provides different avenues to acquiring content, to processing or making sense of ideas, and to developing products so that each student can learn effectively (2001).

While differentiation "advocates attending to students as individuals, it does not assume a separate assignment for each learner"(Tomlinson). "Differentiation needs to be student-centered, rooted in assessment, and dynamic" Serravello, 2010. We are constantly adjusting our teaching in response to what students are telling and showing us in their work and talk. Teachers who differentiate must take the time to get to know their students well. They have to understand them as people, learners and know what motivates them to reach their goals. Robb notes that "Differentiation is a way of teaching, it's not a program or a package of worksheets. It asks teachers to know their students well so they can provide each one with experiences and tasks that will improve learning" (2008, p.13).

Math Talk

One of the most important things that happen in the math class is the discussion. We have to teach students to be active participants and engaged listeners. We want them to respect each other deeply and seek to truly understand each other without judgment. They have to learn to develop and defend their thinking, justify their answers and respectfully disagree with each other. The National Council of Teachers of Mathematics (NCTM) defines math talk as "the ways of representing, thinking, talking, and agreeing and disagreeing that teachers and students use to engage in [mathematical] tasks" (NCTM, 1991).

Questioning

It is so important to ask good questions. The questions should reach beyond the answer. As Phil Daro notes, we have to go "beyond answer-getting (https://vimeo.com/79916037)." The questions in the guided math group should be designed to get students to understand more fundamentally the mathematics of the grade level. Good questions don't just happen, they are planned for. The teacher should know ahead of time the types of questions that she will ask and why she will ask them. In the plan for the lesson, the teacher should brainstorm some possible questions that push student thinking. These are not yes or no questions, but rather ones that require students to explain themselves, show what they know and defend and justify their thinking.

PROGRESSION OF ADDITION

JOURNEY TO FLUENCY

FLUENCY IS

1. EFFICIENCY
2. ACCURACY
3. FLEXIBILITY

(NRC; Kilpatrick et al., 2001; NCTM 2000; NCTM, 2014).

- ADDING 1 — 2 + 1
- ADDING 0 — 5 + 0
- COUNTING ON WITHIN 5 — 3 + 1
- ADDING WITHIN 5 — 1 + 4
- COUNTING ON WITHIN 10 — 5 + 3
- ADDING WITHIN 10 — 6 + 3
- MAKE TEN — 6 + 4
- LOWER DOUBLES — 3 + 3
- YAY! I CAN ADD WITHIN 10!
- ADD 10 — 6 + 10
- DOUBLES — 9 + 9
- DOUBLES + 1 — 8 + 9
- BRIDGE 10 — 7 + 9
- DOUBLES + 2 — 5 + 7
- THINKING ABOUT NUMBER RELATIONSHIPS (WITHIN 20) — 12 + 7
- MAKE 20 — 15 + 5

SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

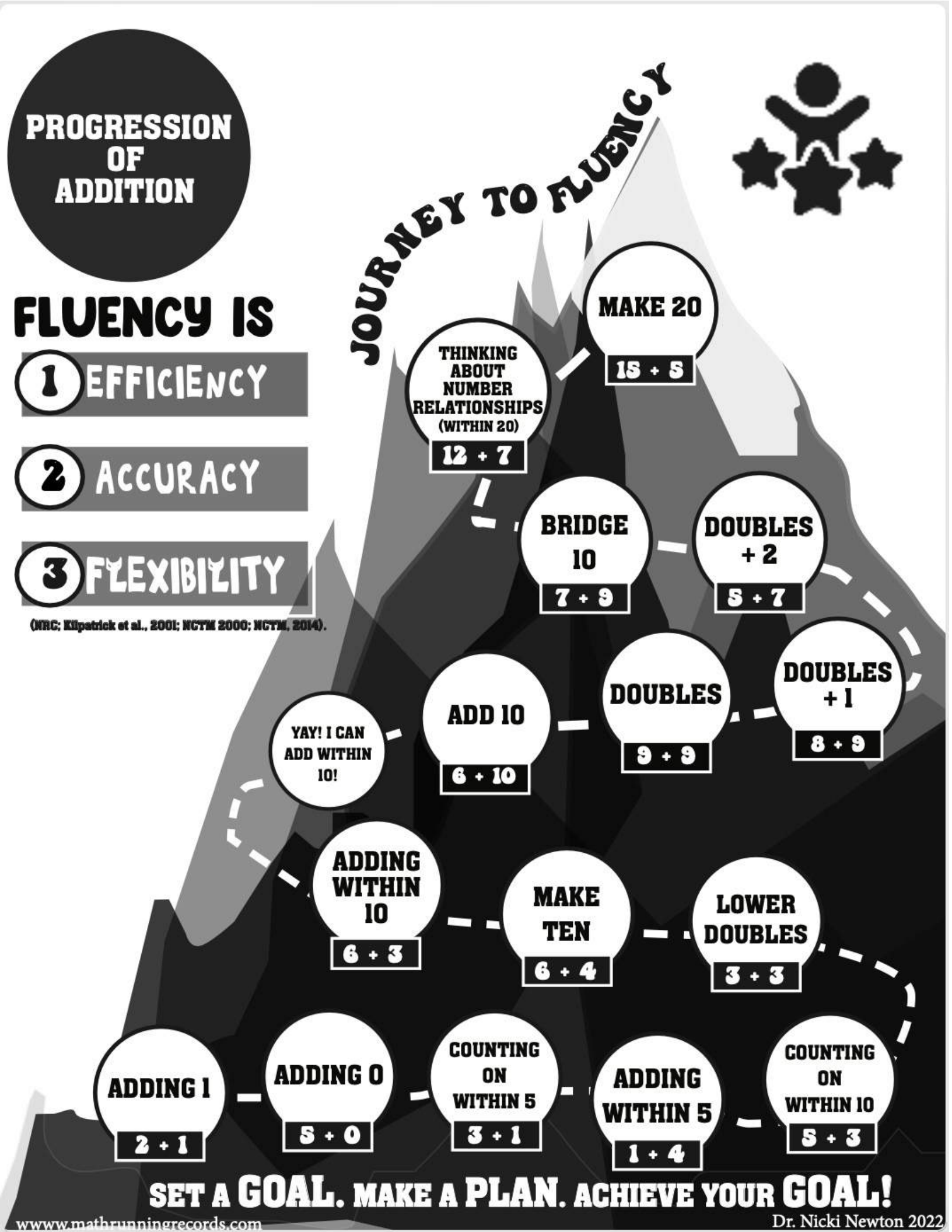
Dr. Nicki Newton 2022

PROGRESSION OF ADDITION

FLUENCY IS

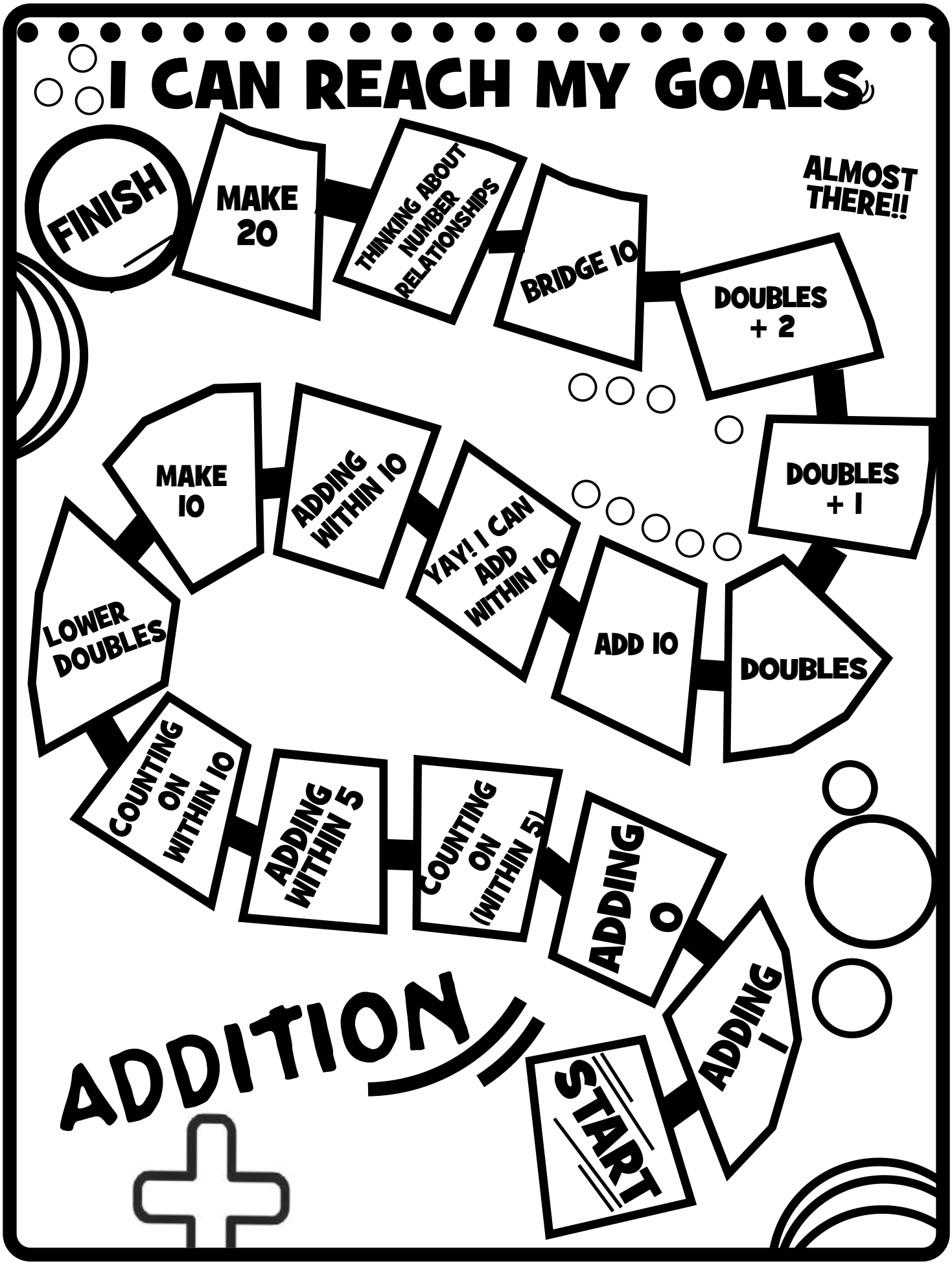
1. EFFICIENCY
2. ACCURACY
3. FLEXIBILITY

(NRC; Kilpatrick et al., 2001; NCTM 2000; NCTM, 2014).



SET A GOAL. MAKE A PLAN. ACHIEVE YOUR GOAL!

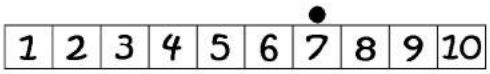
Dr. Nicki Newton 2022


I CAN REACH MY GOALS
FINISH
MAKE 20
THINKING ABOUT NUMBER RELATIONSHIPS
BRIDGE 10
ALMOST THERE!!
DOUBLES + 2
DOUBLES + 1
DOUBLES
ADD 10
YAY! I CAN ADD WITHIN 10
ADDING WITHIN 10
MAKE 10
LOWER DOUBLES
COUNTING ON WITHIN 10
ADDING WITHIN 5
COUNTING ON (WITHIN 5)
ADDING 0
ADDING 1
START
ADDITION

I Can Use Addition Strategies

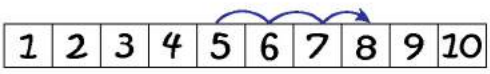
When you add 0 to a number the answer is the number

7+0 = 7



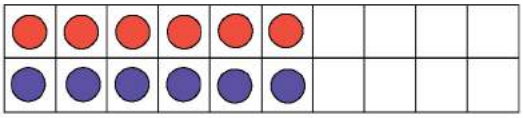
When you add 1,2 or 3, you just count on

5+3 = 8



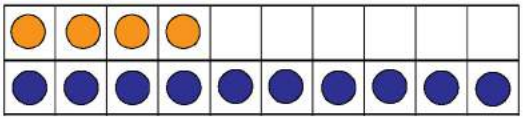
When you add a number to itself, it's double!

7+7 = 14



When you add 10 to a single digit you have the ones plus 10 more.

4+10 = 14



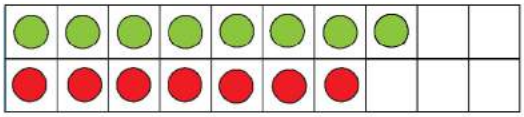
Know your ten friends!

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

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

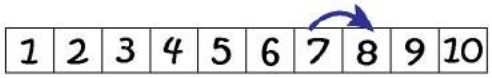
Use the doubles plus 1 strategy when you see neighbor numbers!

8+7 = 15



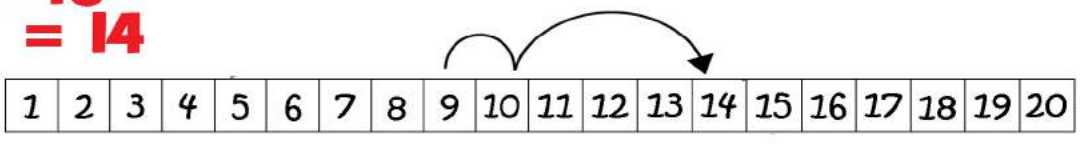
When you add 1 to a number, it's just the number after!

7+1 = 8



When you add 7,8 or 9....Just add to 10 and then jump on

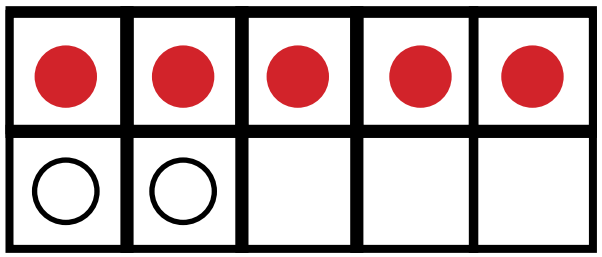
9 + 1 = 10
10 + 4 = 14



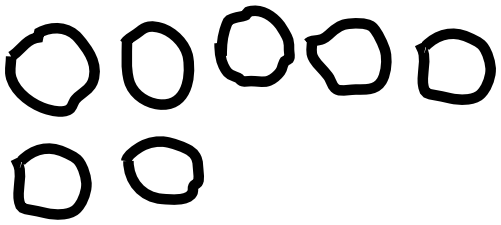
I Can Model Addition

5 + 2 = 7

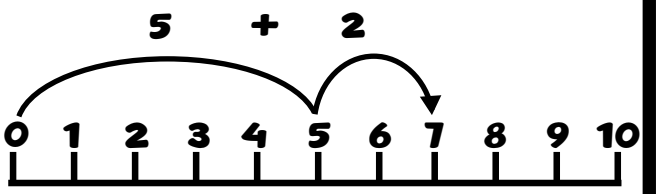
TEN FRAMES



MATH SKETCH



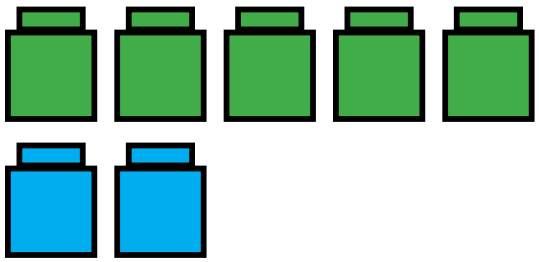
NUMBER LINE



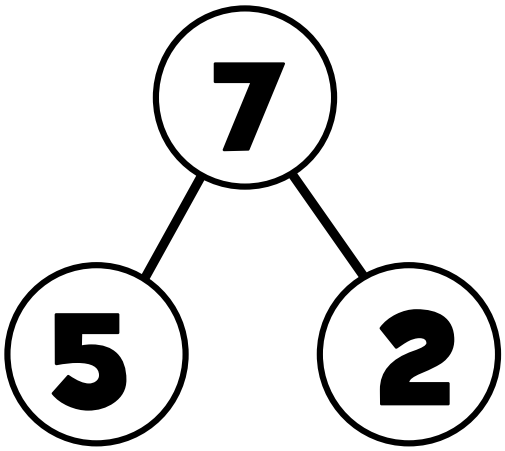
NUMBER SENTENCE

5 + 2 = 7

COUNTERS



NUMBER BONDS



VOCABULARY CARDS

ADDITION

2 + 1 = 3

PLUS SIGN

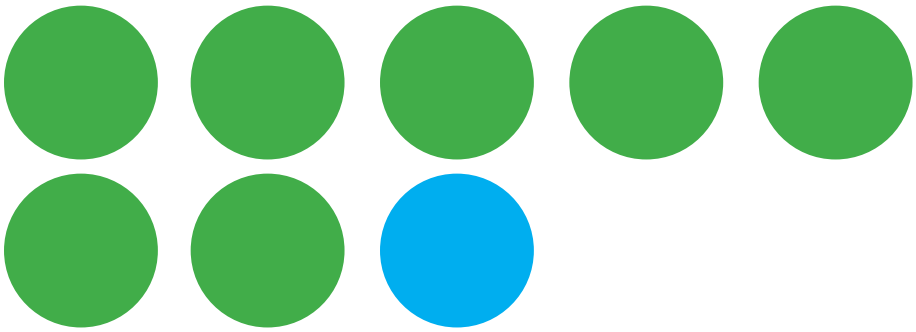
3 + 2 = 5

SUM

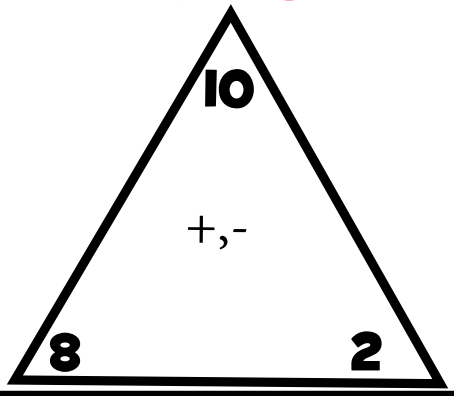
5 + 3 = 8

VOCABULARY CARDS

ADD



RELATED FACTS



2 + 8 = 10

8 + 2 = 10

10 - 8 = 2

10 - 2 = 8

EQUAL SIGN

6 + 1 = 7

VOCABULARY CARDS

Addition Equation/ Number Sentence

Plus sign

Equal Sign

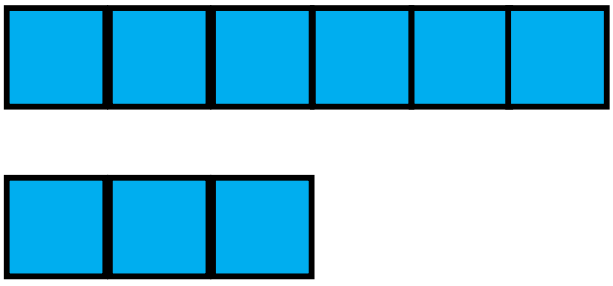
8 + 1 = 9

ADDEND ADDEND SUM

MISSING NUMBER

7 + ☐ = 9

COMPARE

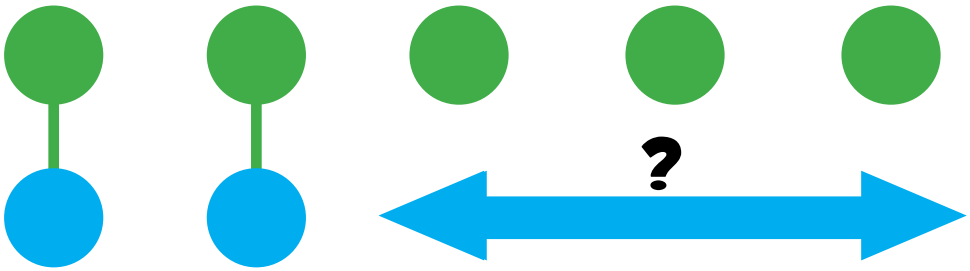


6 > 3

3 < 6

VOCABULARY CARDS

FEWER



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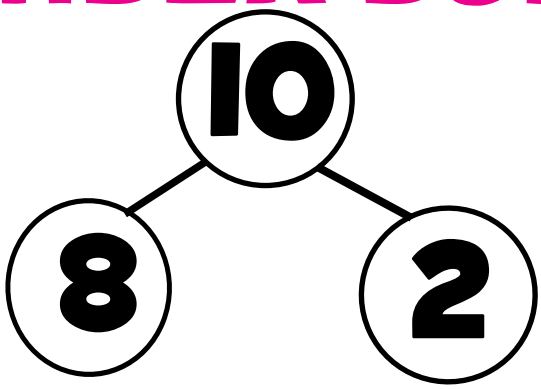


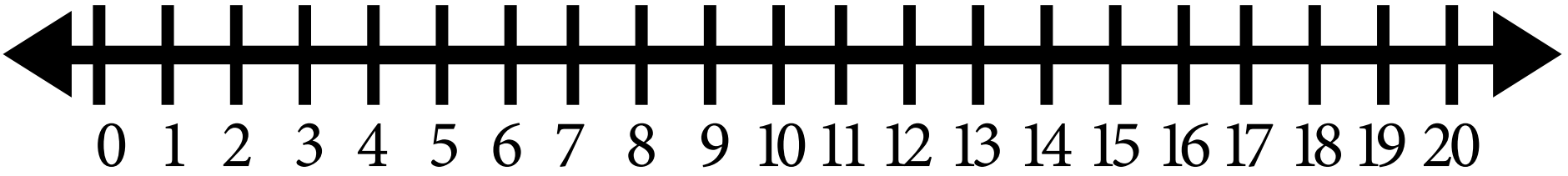
PART PART WHOLE MAT

10

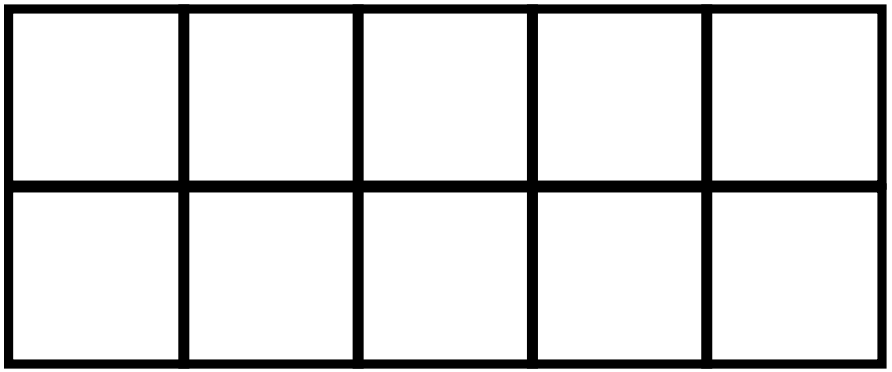
8	2

MATHEMATICIAN
THINK SPACE

WORK MAT



TEN FRAME



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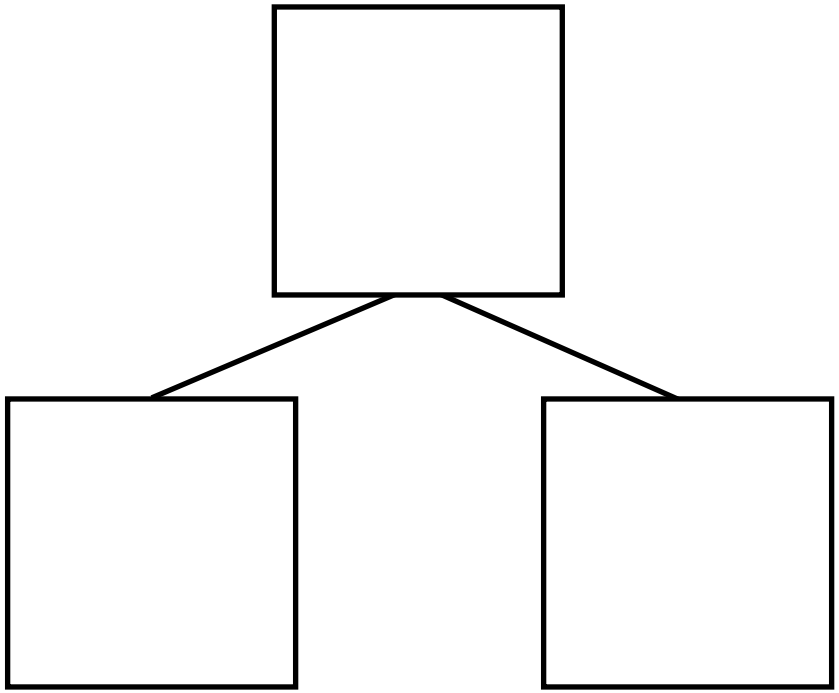
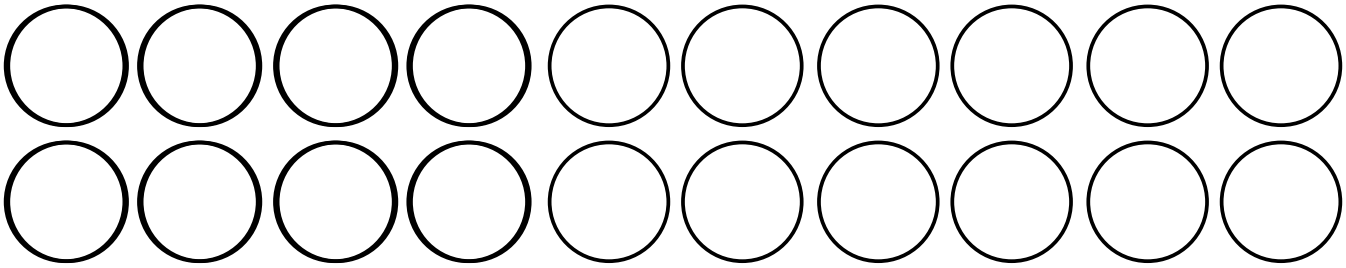


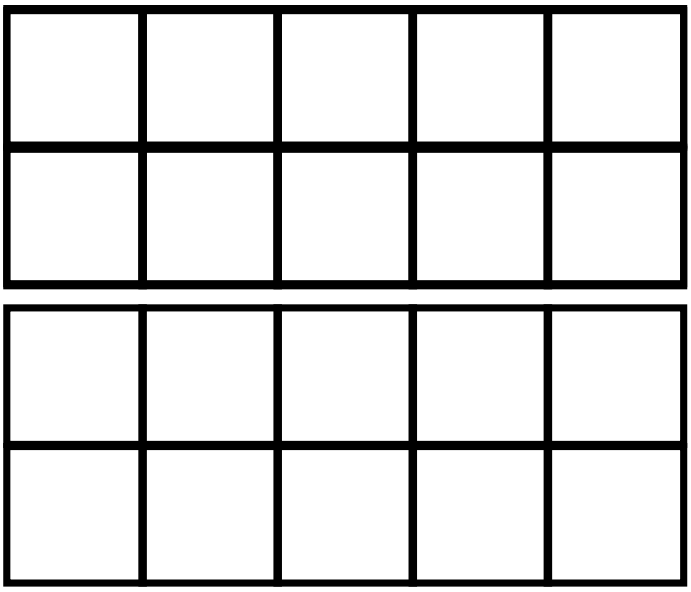
WORK MAT

COLOR IT



DRAW IT

TWENTY FRAMES



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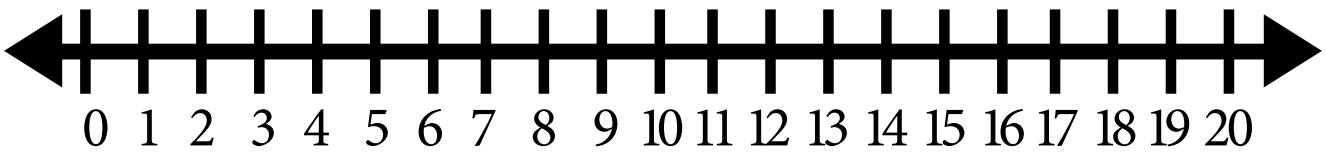
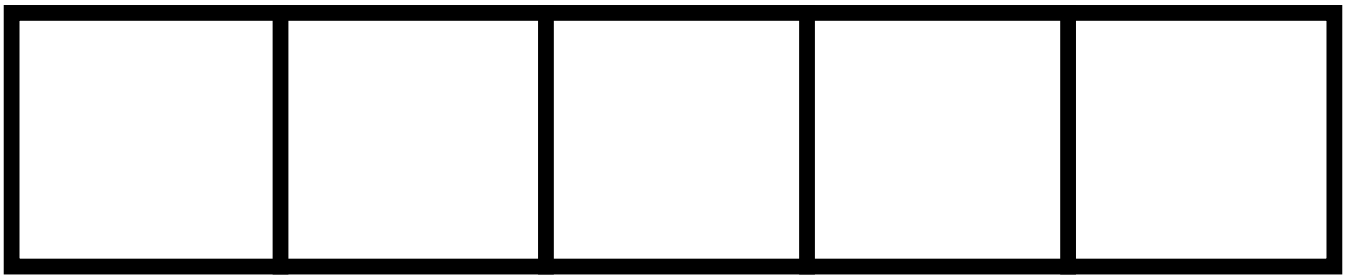
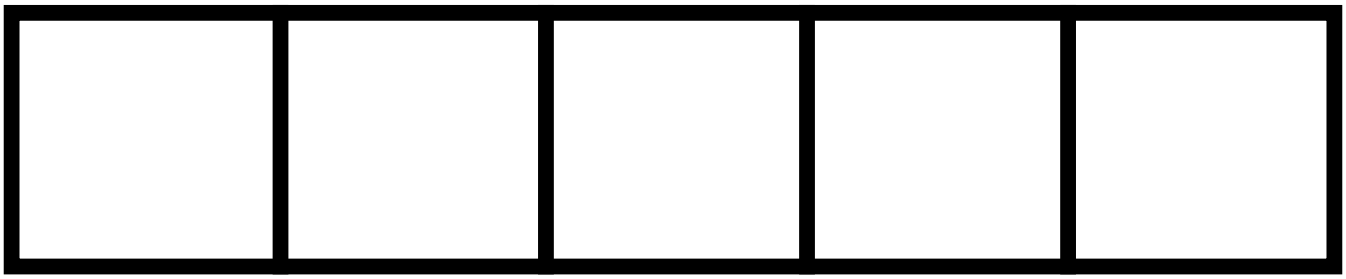
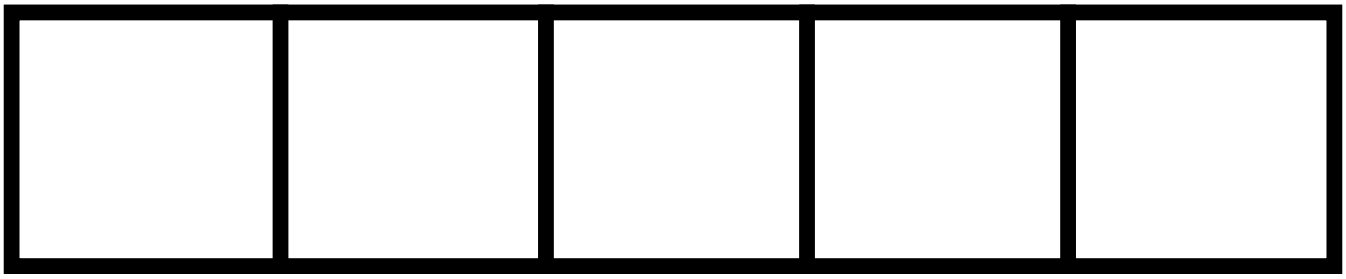


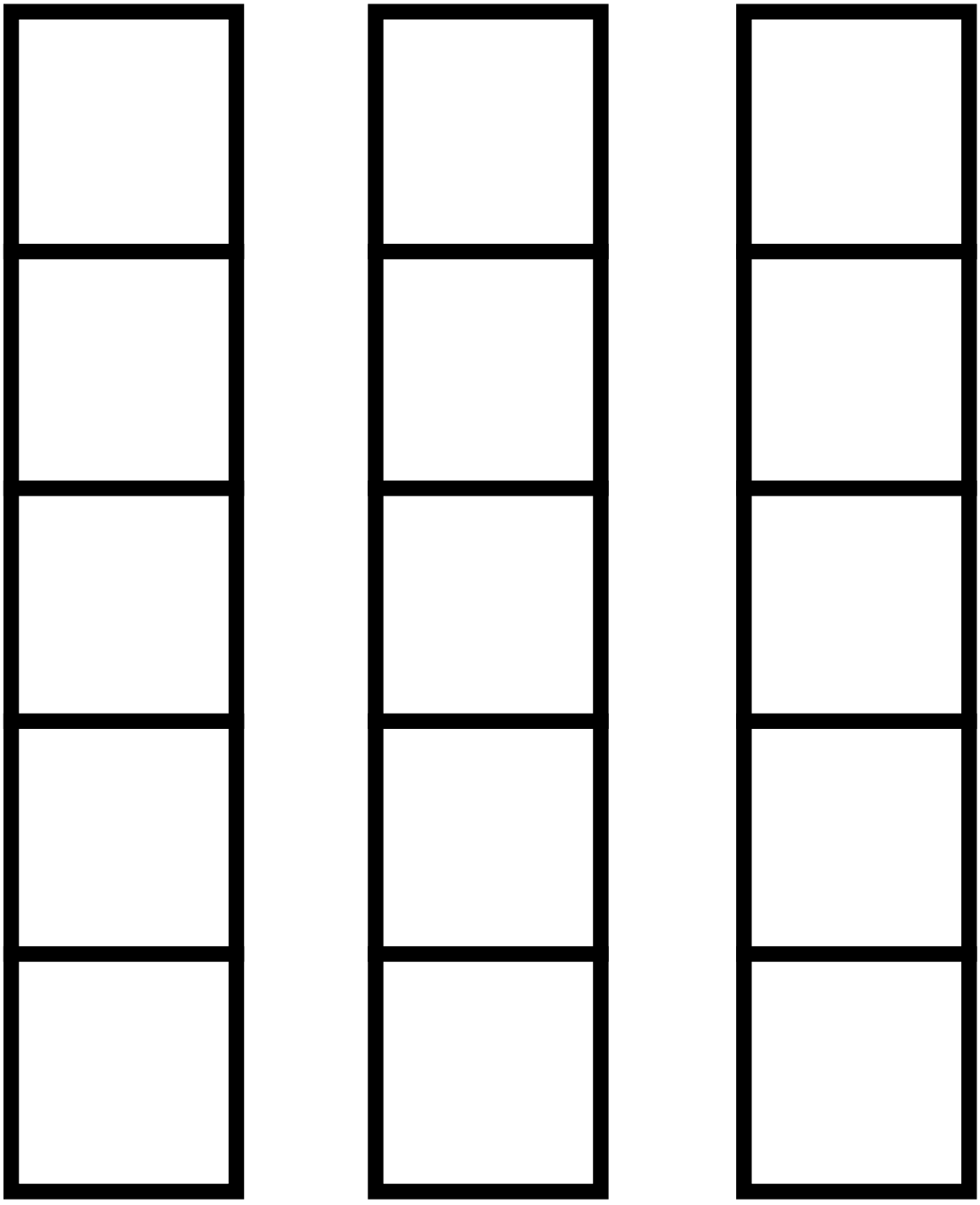
FIVE FRAMES



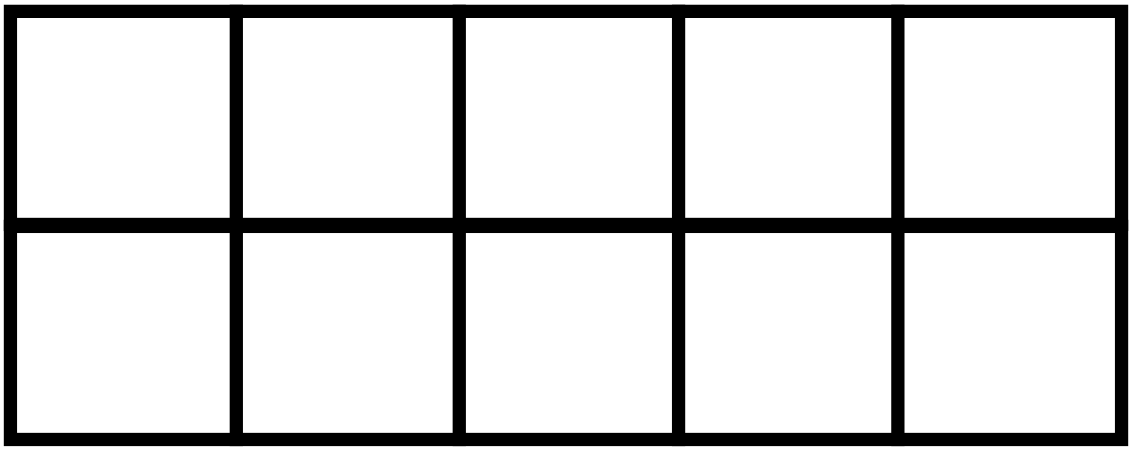


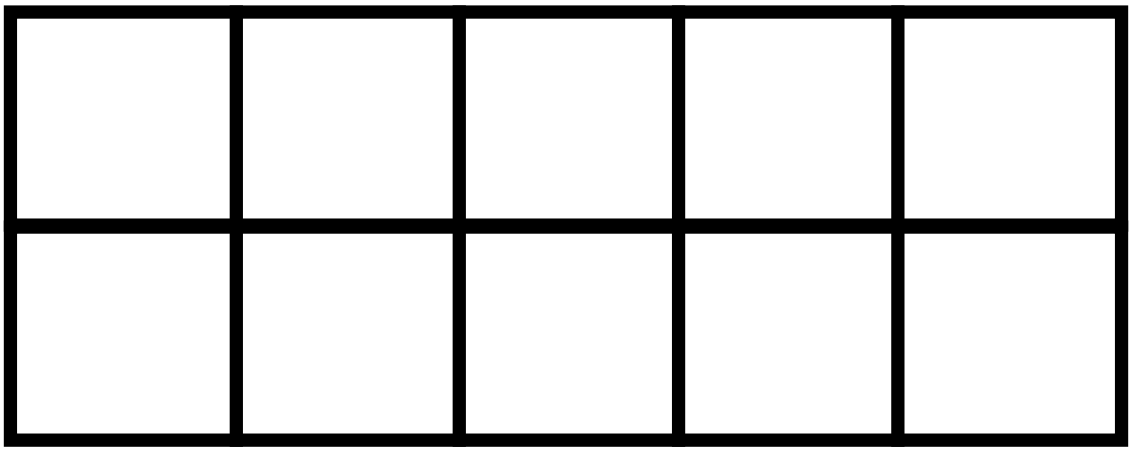


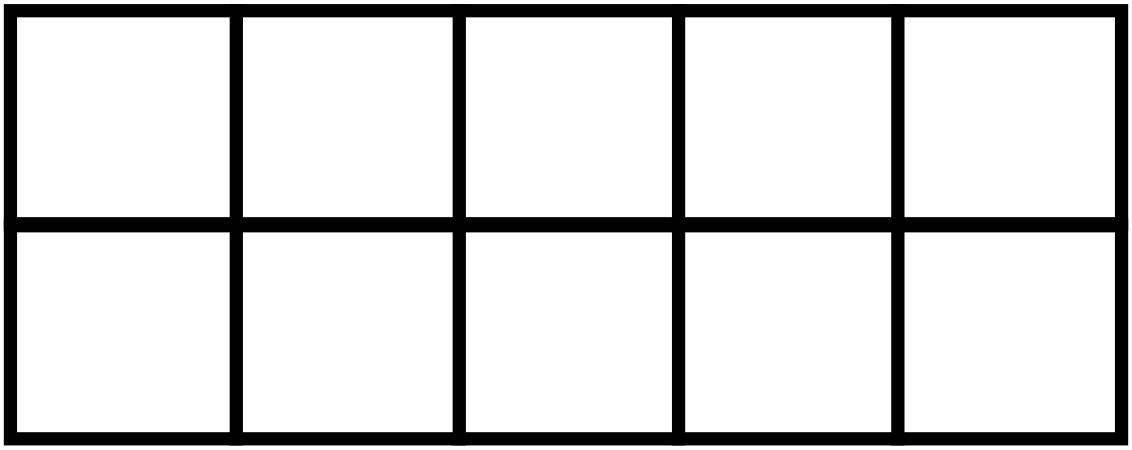
FIVE FRAMES



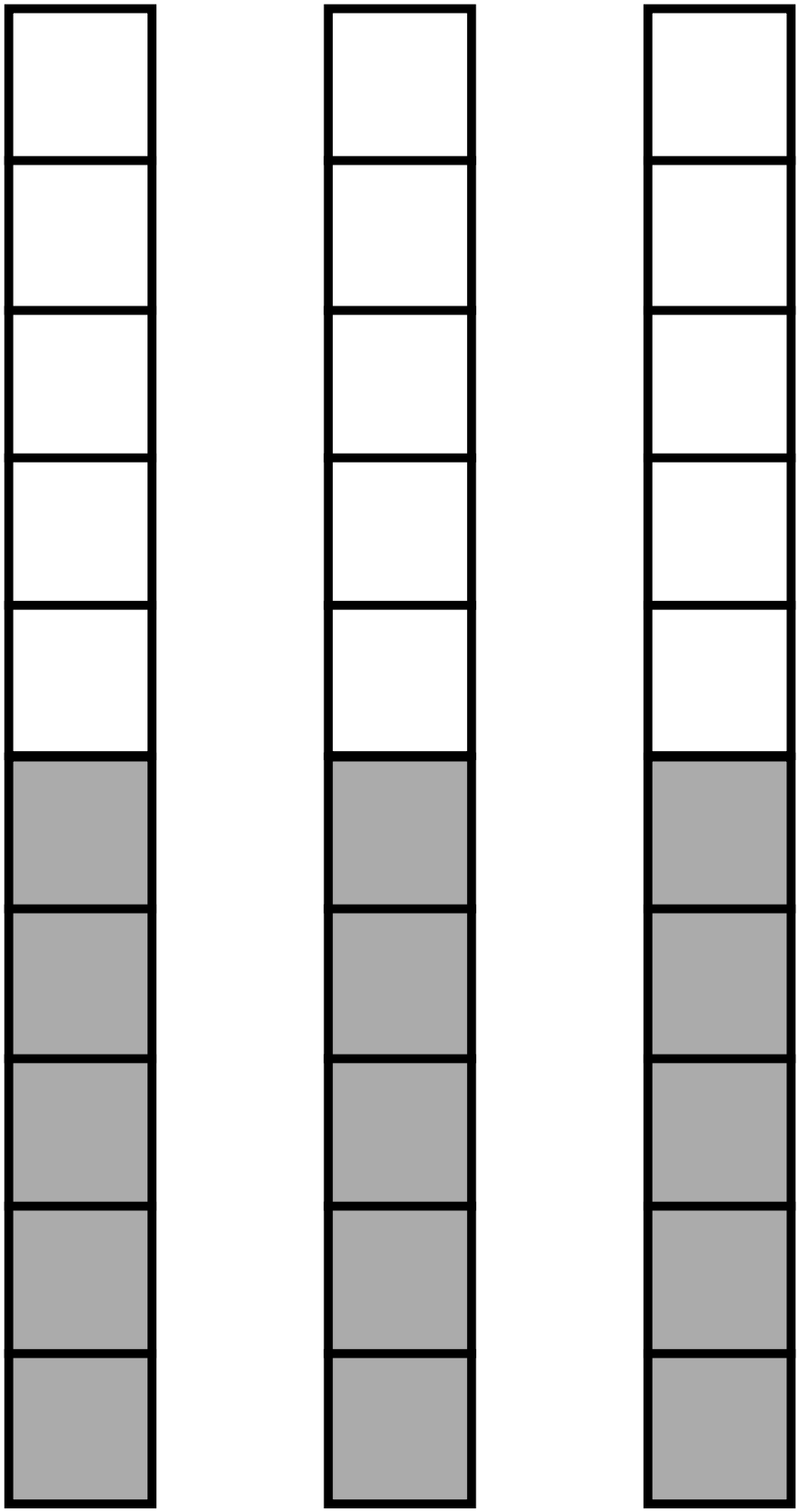
TEN FRAMES



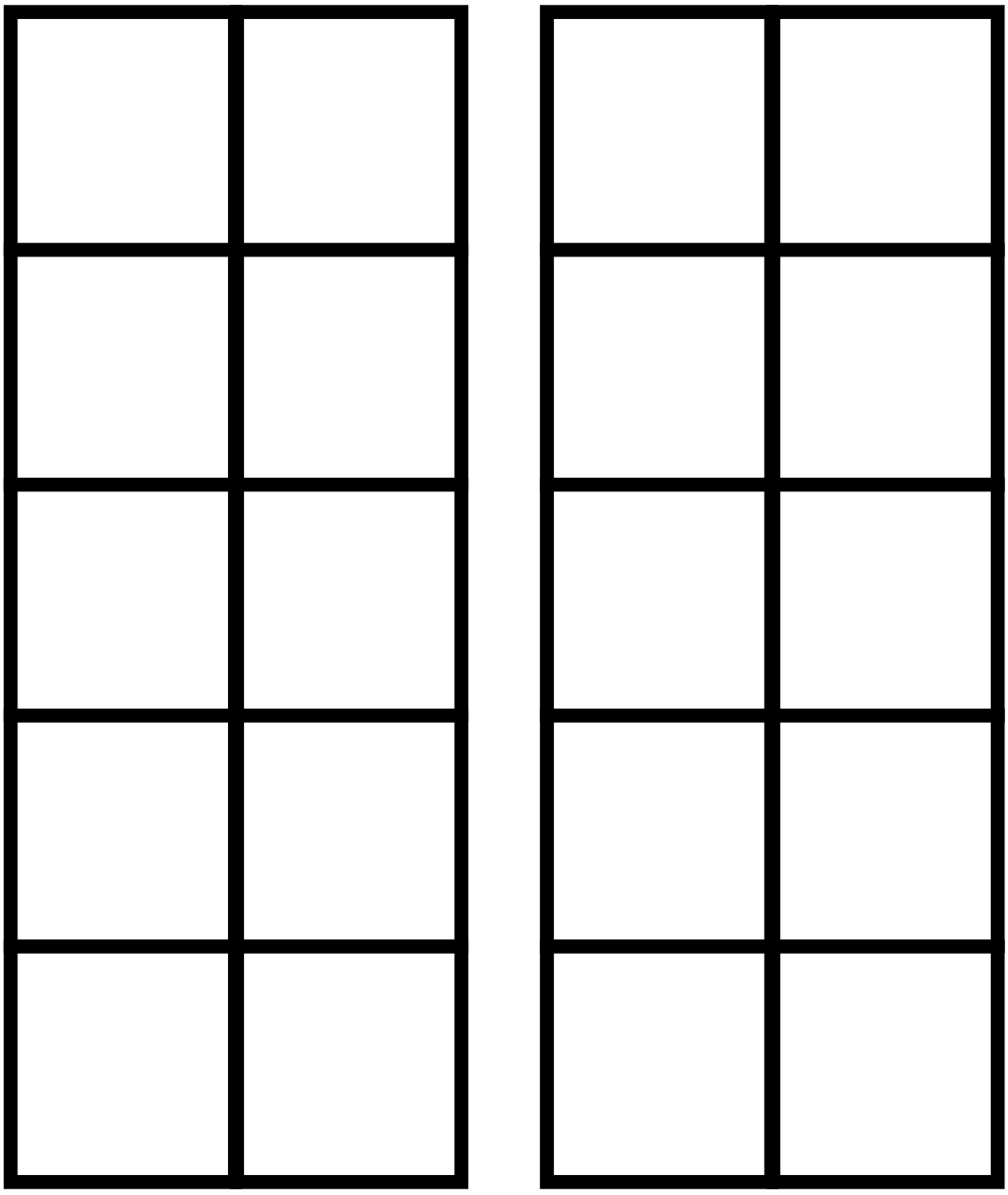




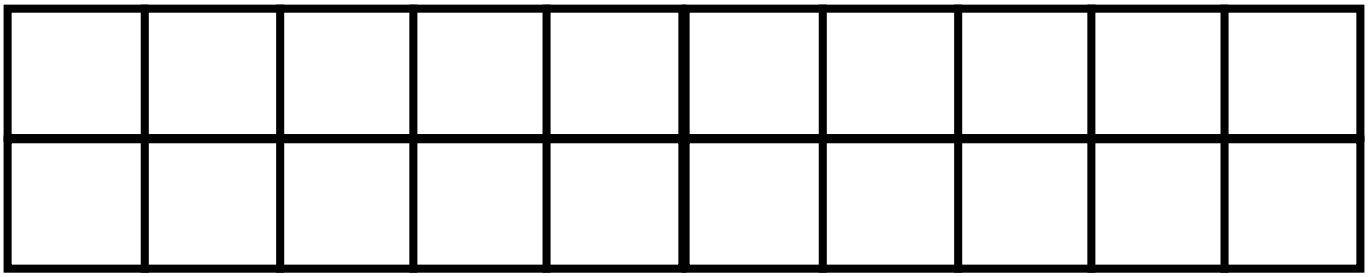
TEN FRAMES

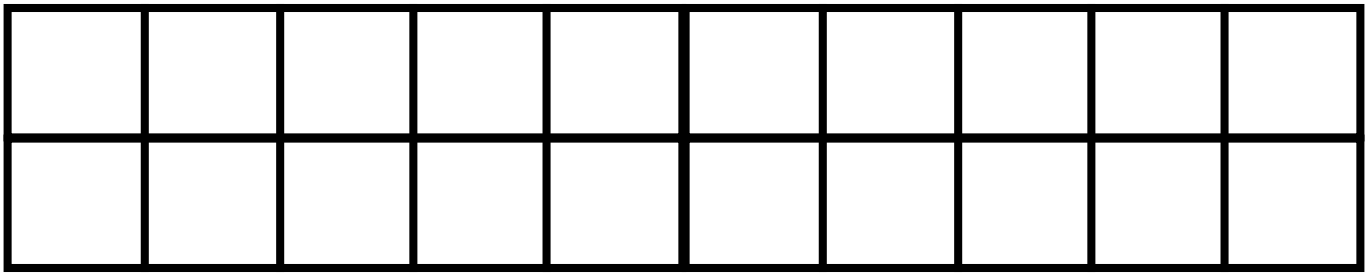


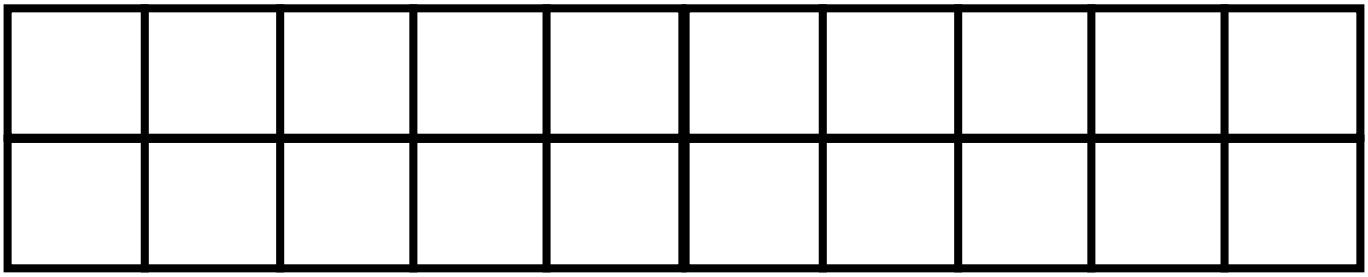
TEN FRAMES



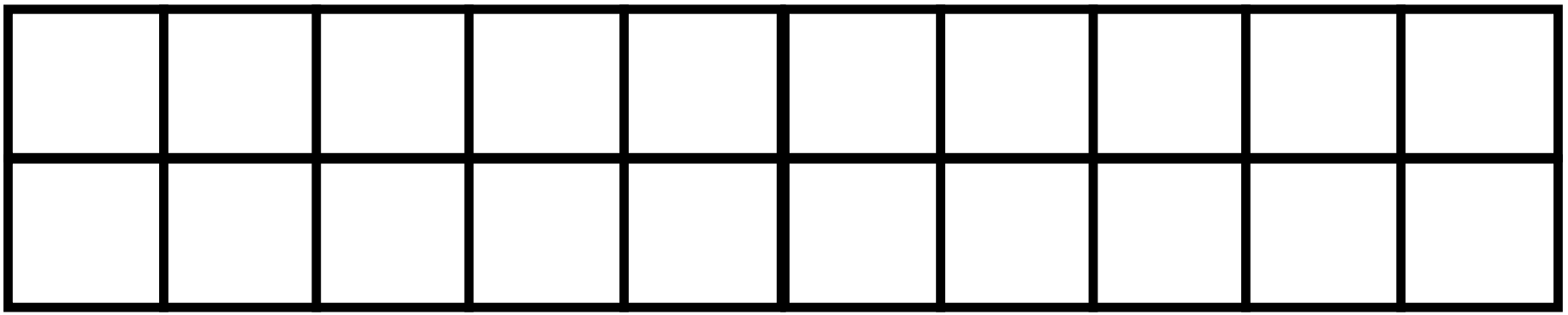
TWENTY FRAMES

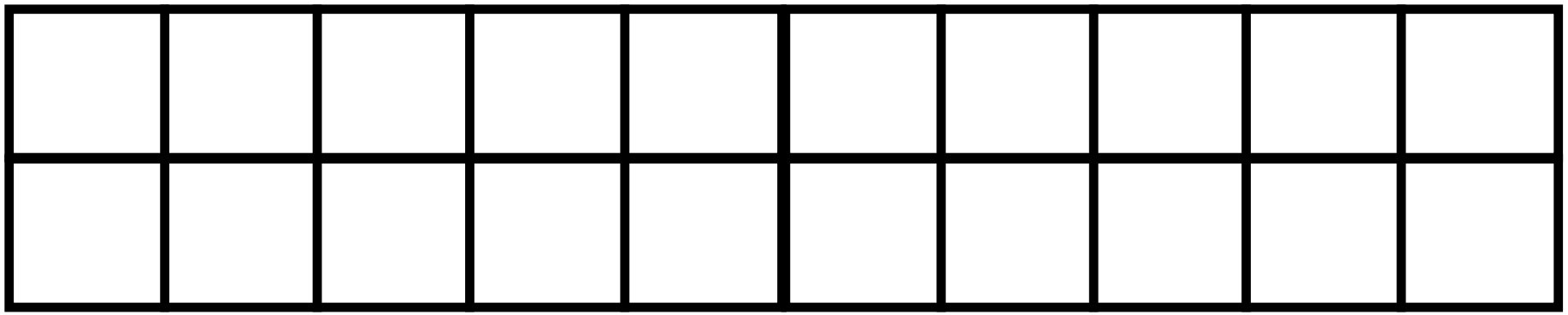




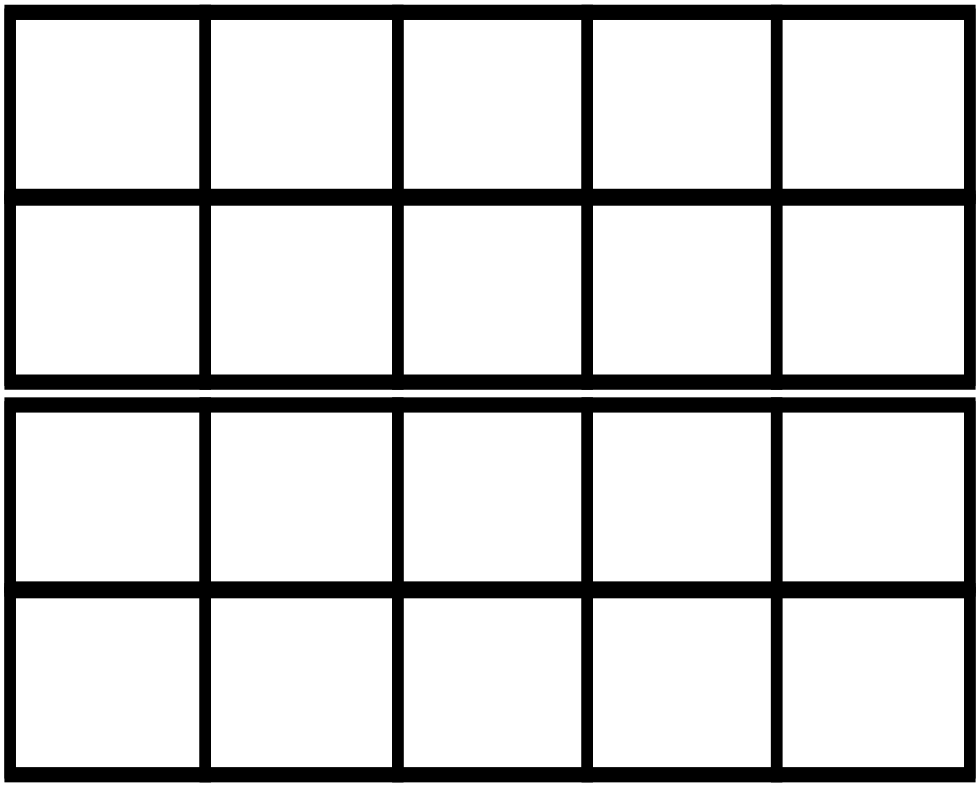


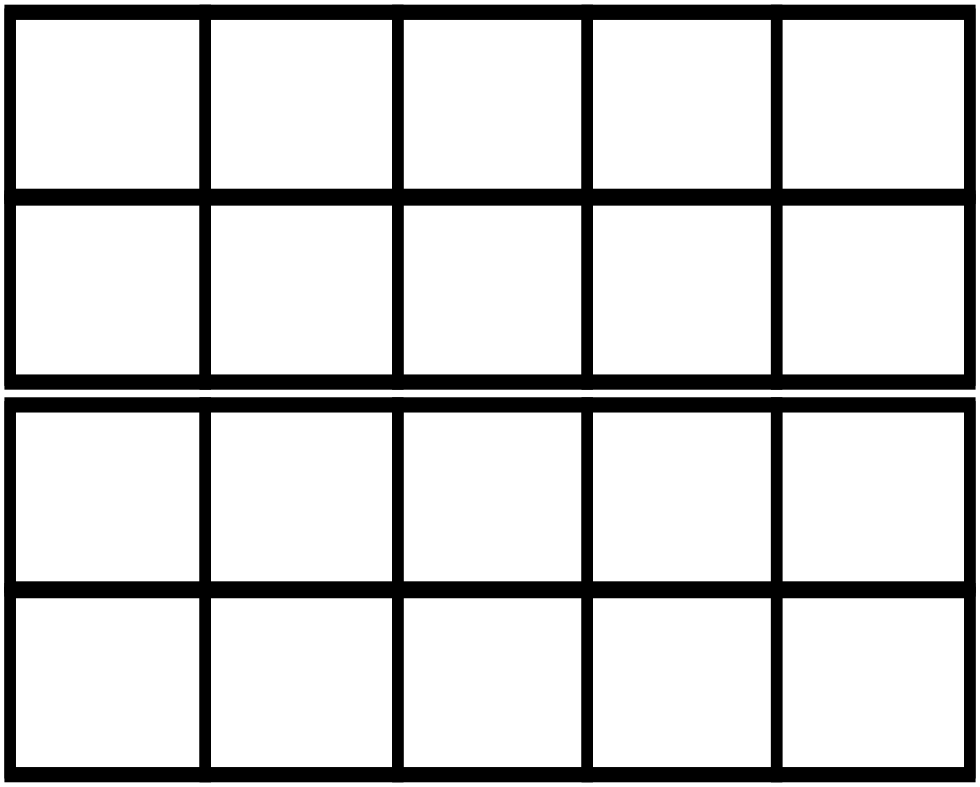
TWENTY FRAMES



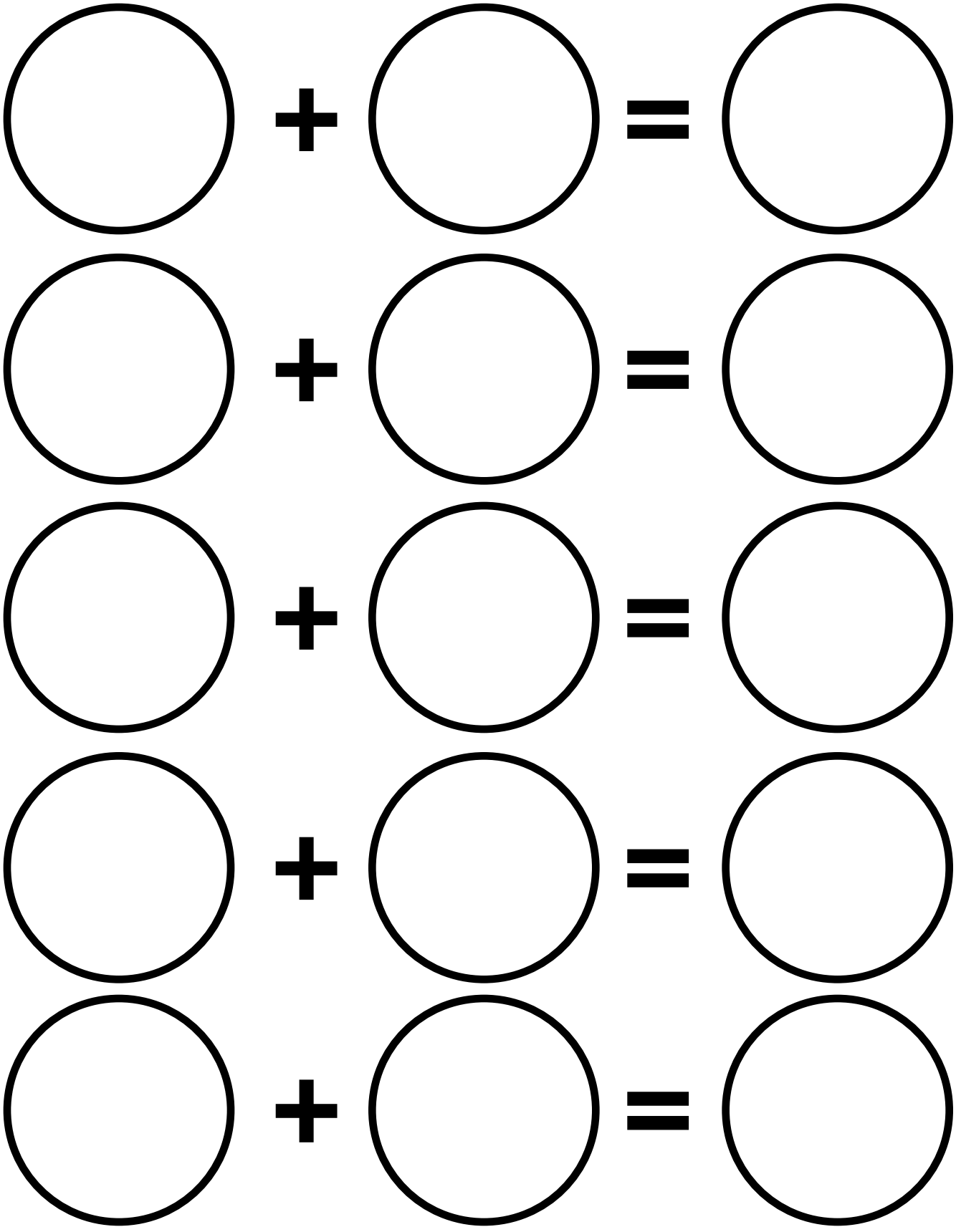


DOUBLE TEN FRAMES

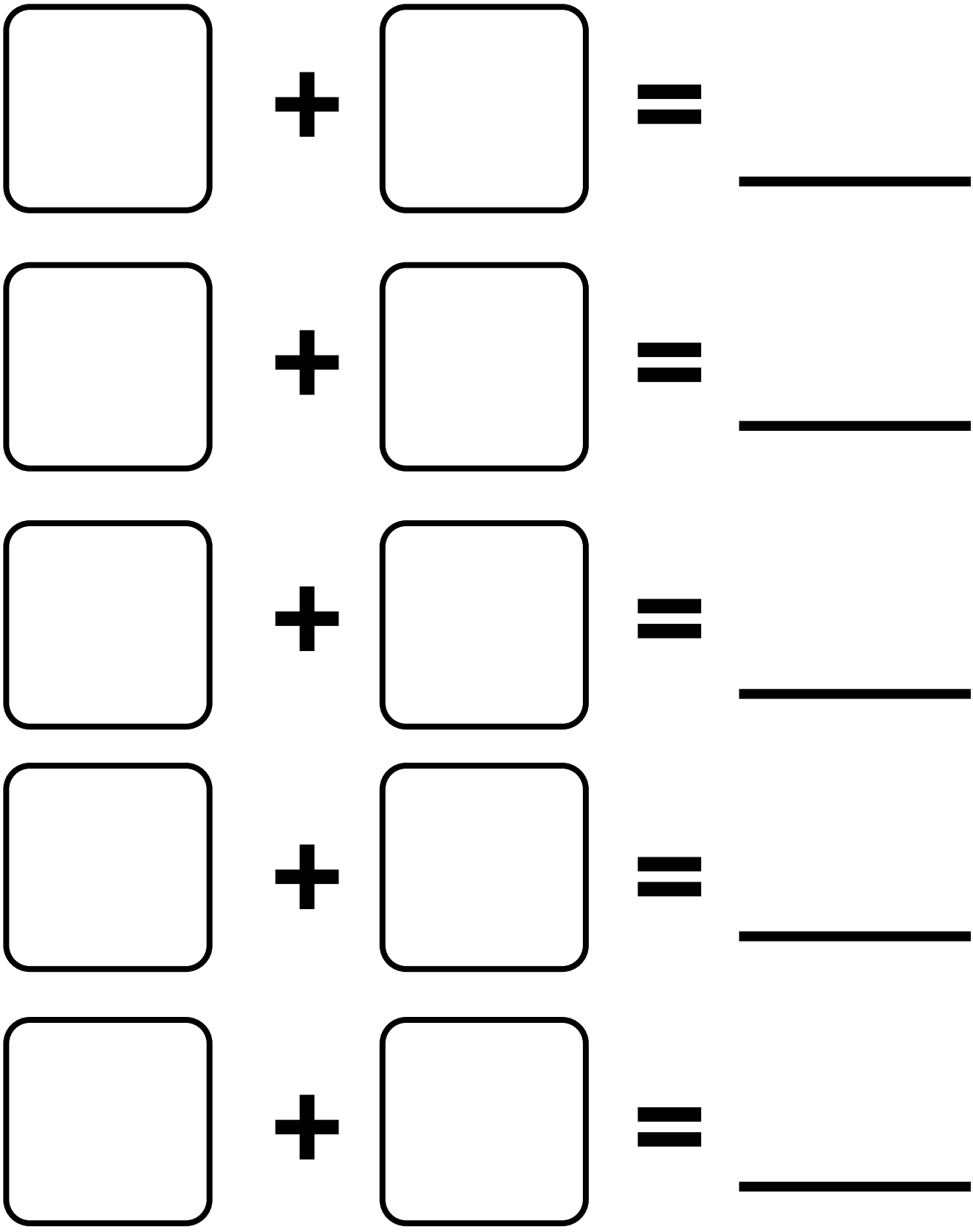




ADDITION TEMPLATE



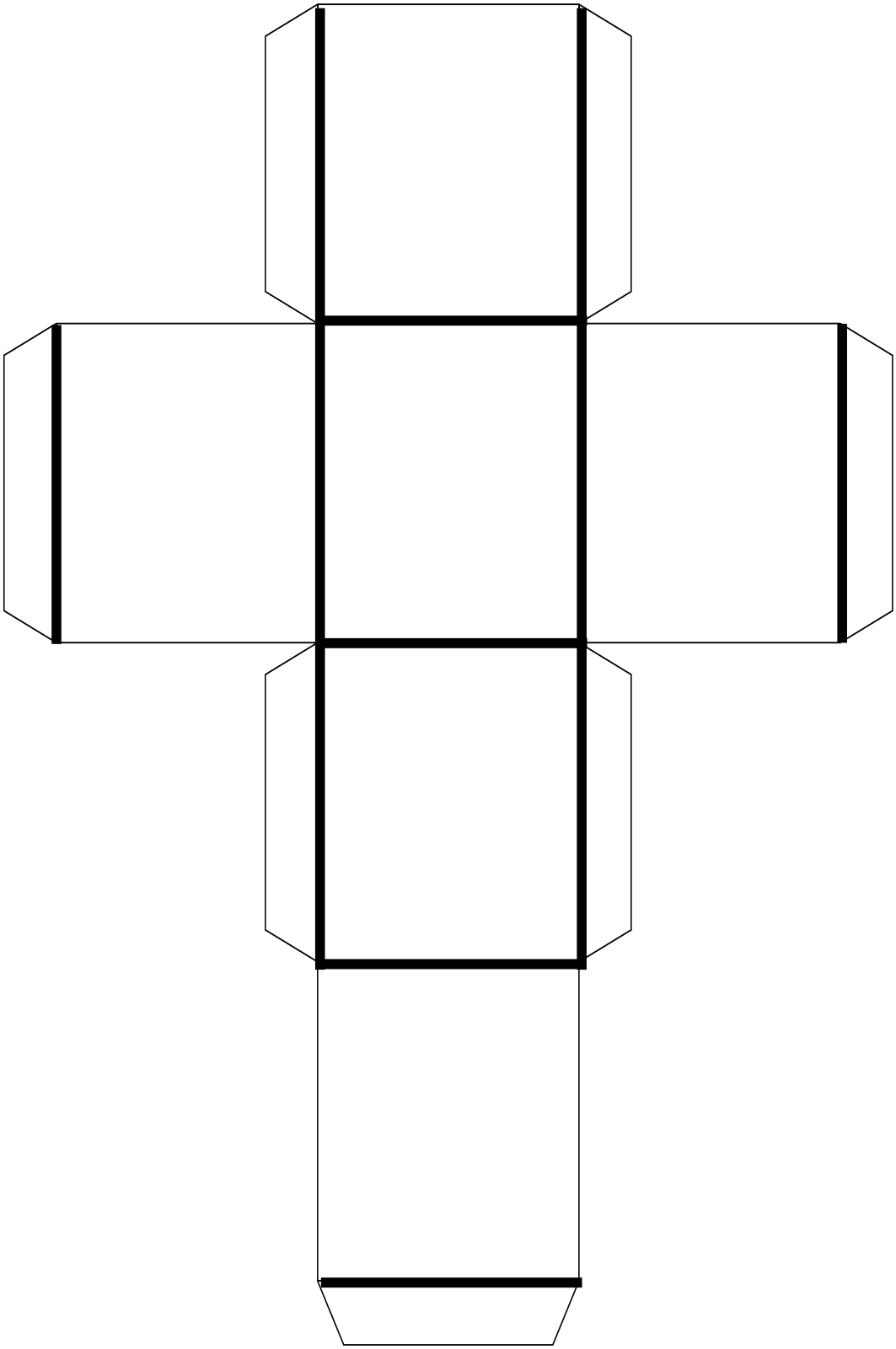
DICE TEMPLATE



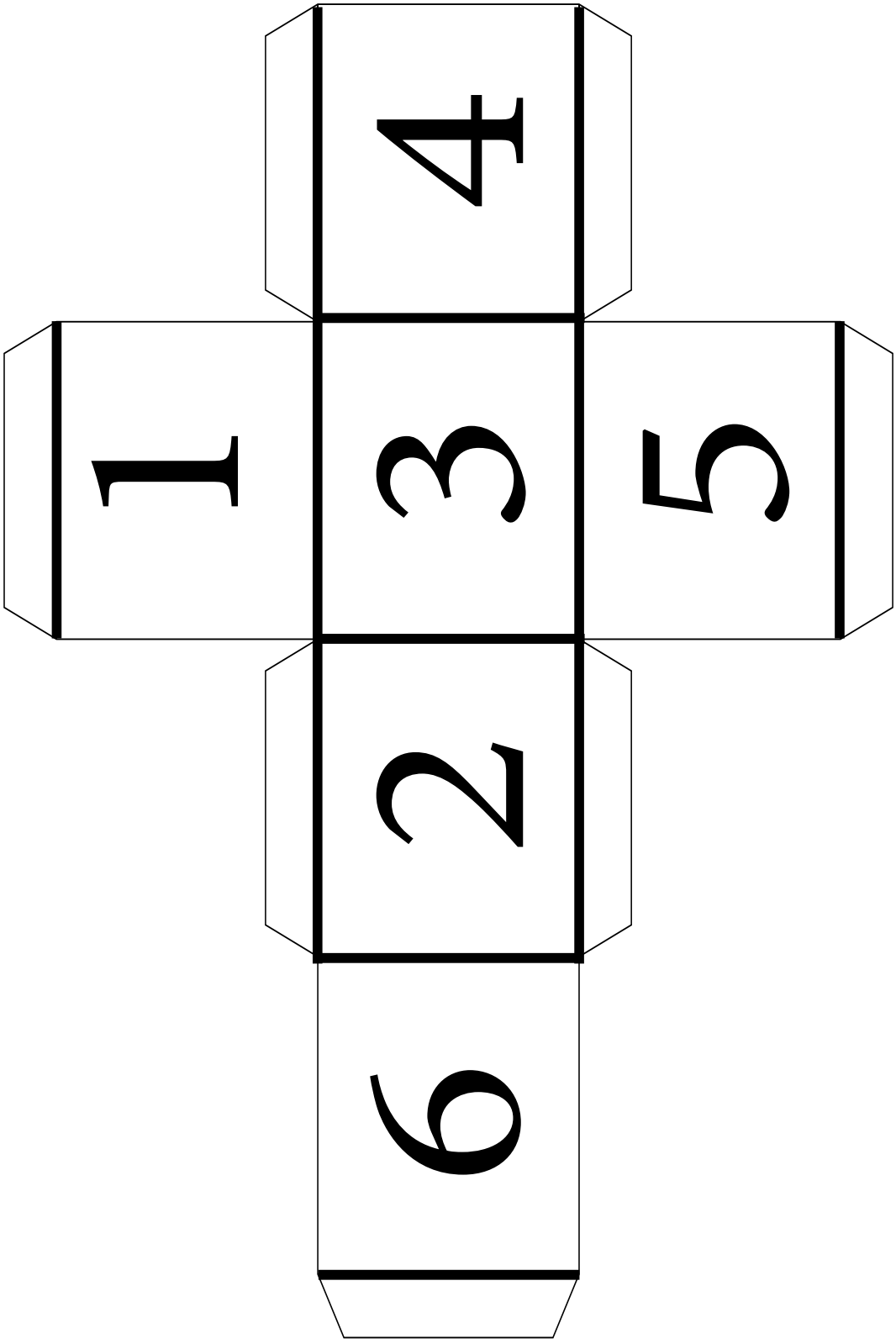
DICE TEMPLATE

	+		+		=			
	+		+		=			
	+		+		=			
	+		+		=			
	+		+		=			
	+		+		=			
	+		+		=			

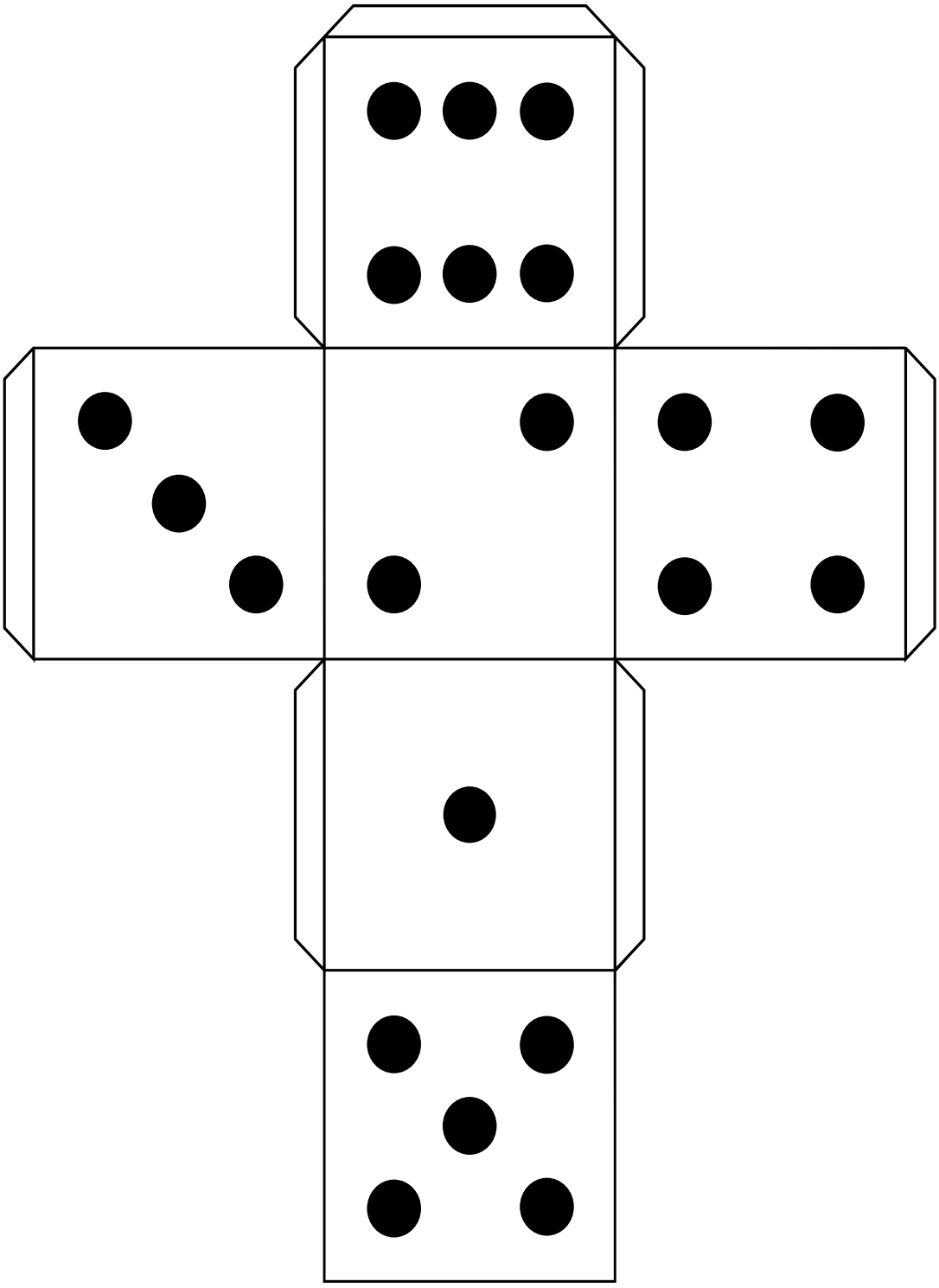
DICE TEMPLATE



DICE TEMPLATE

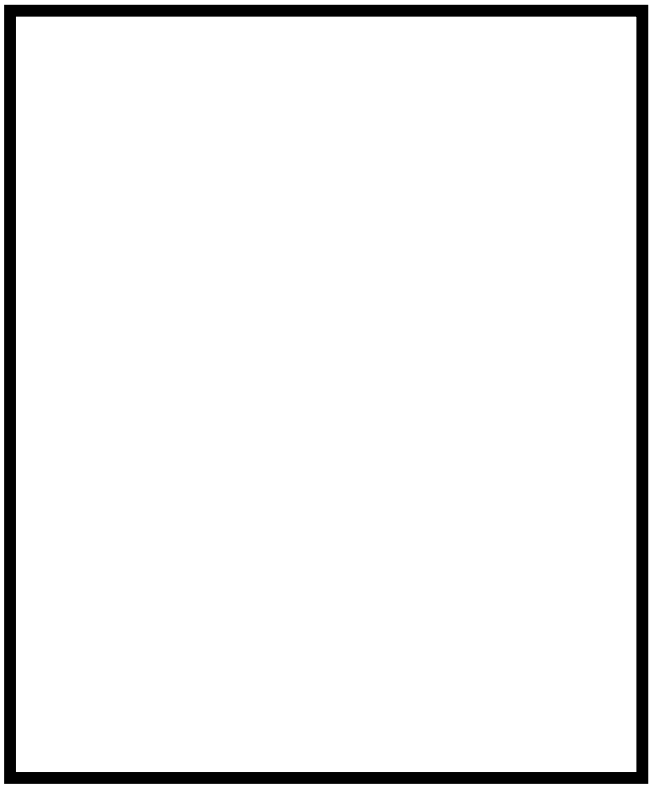


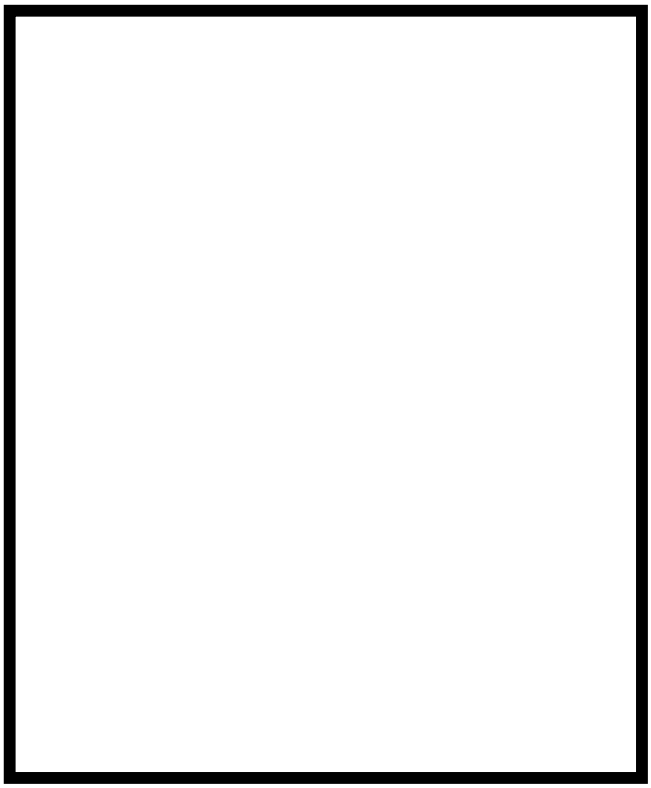
DICE TEMPLATE



FLASHCARD TEMPLATE

FLASHCARD TEMPLATE





_____ + _____ = _____

_____ + _____ = _____

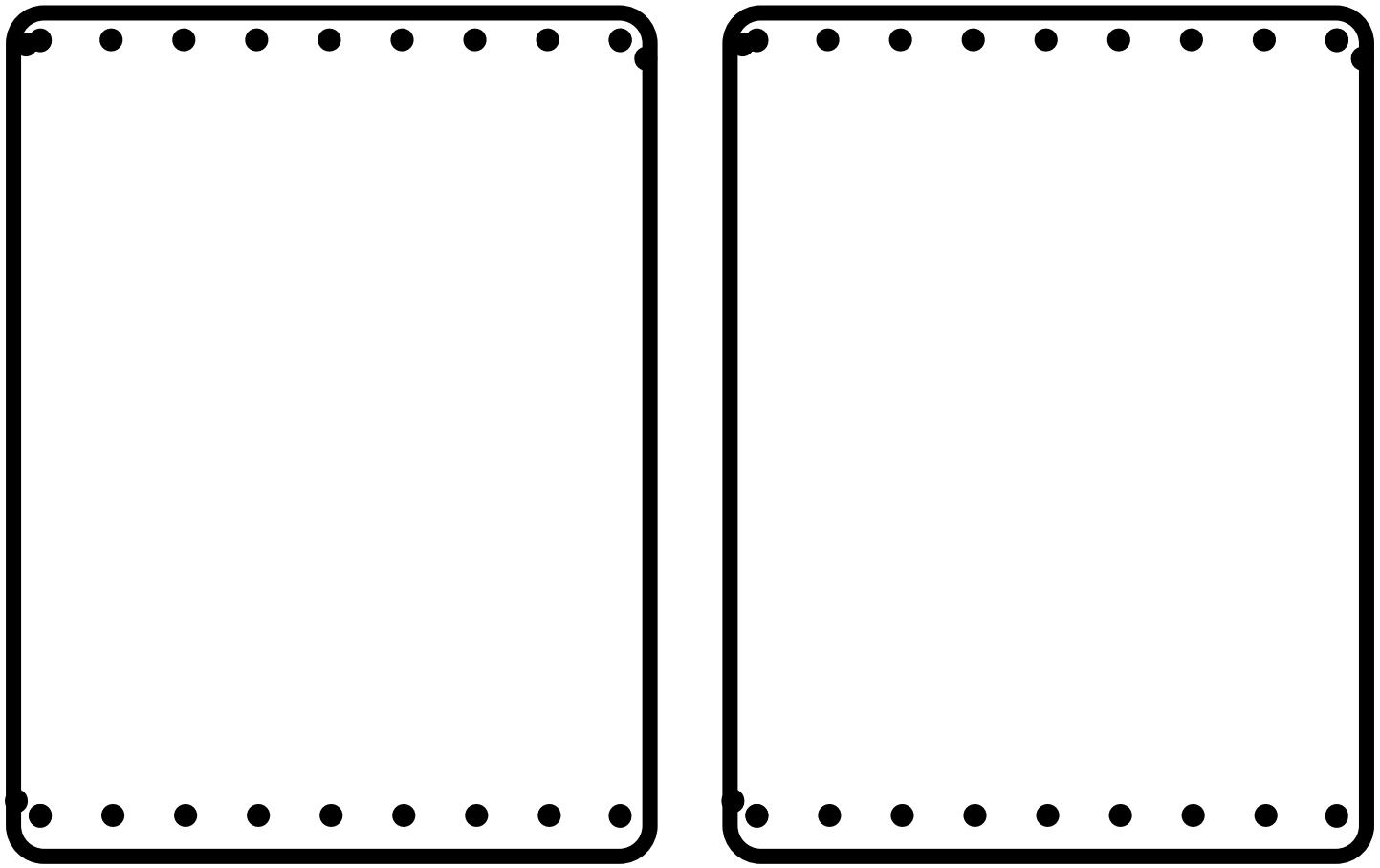
_____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

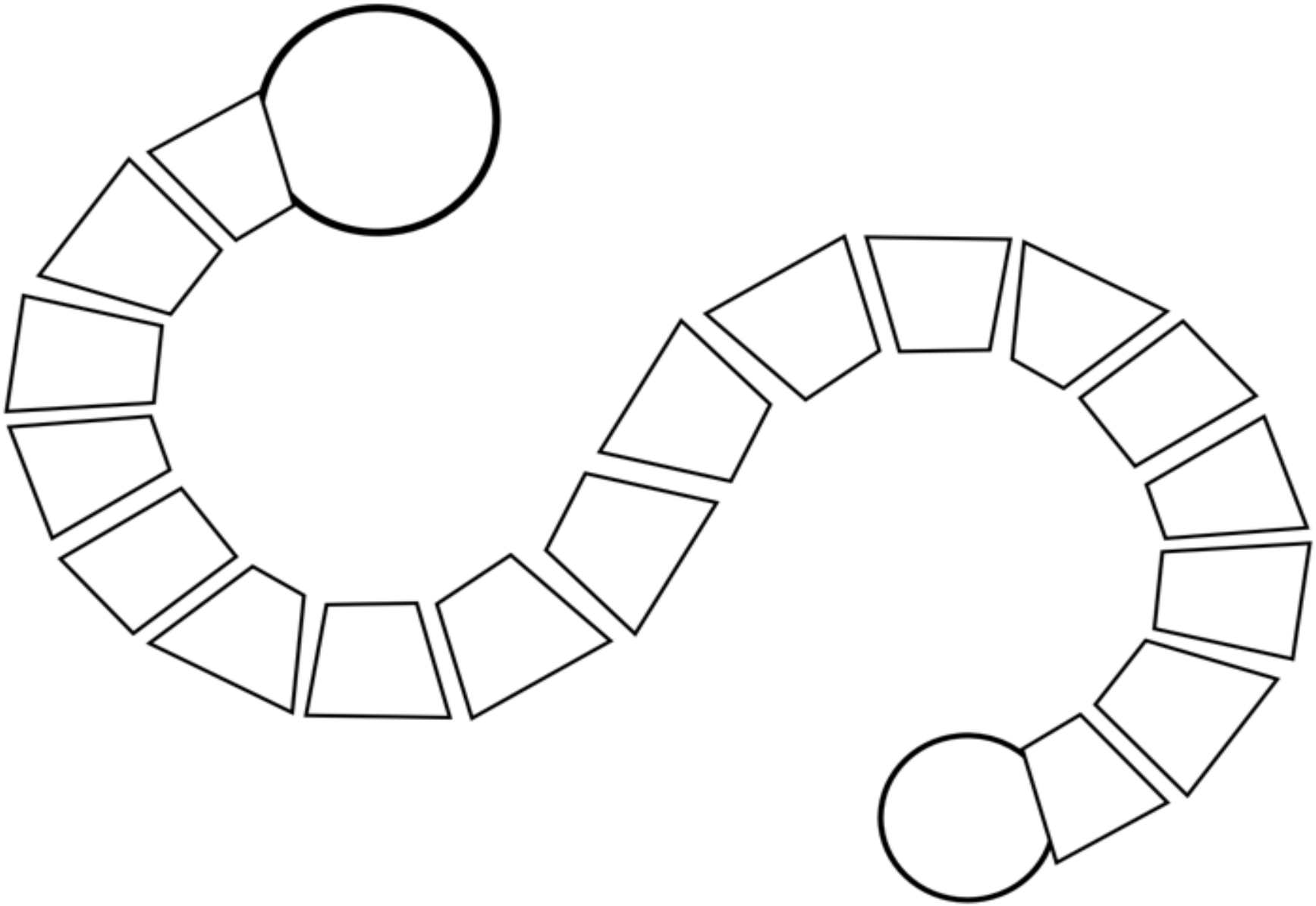
_____ + _____ = _____

PLAYING CARDS TEMPLATE

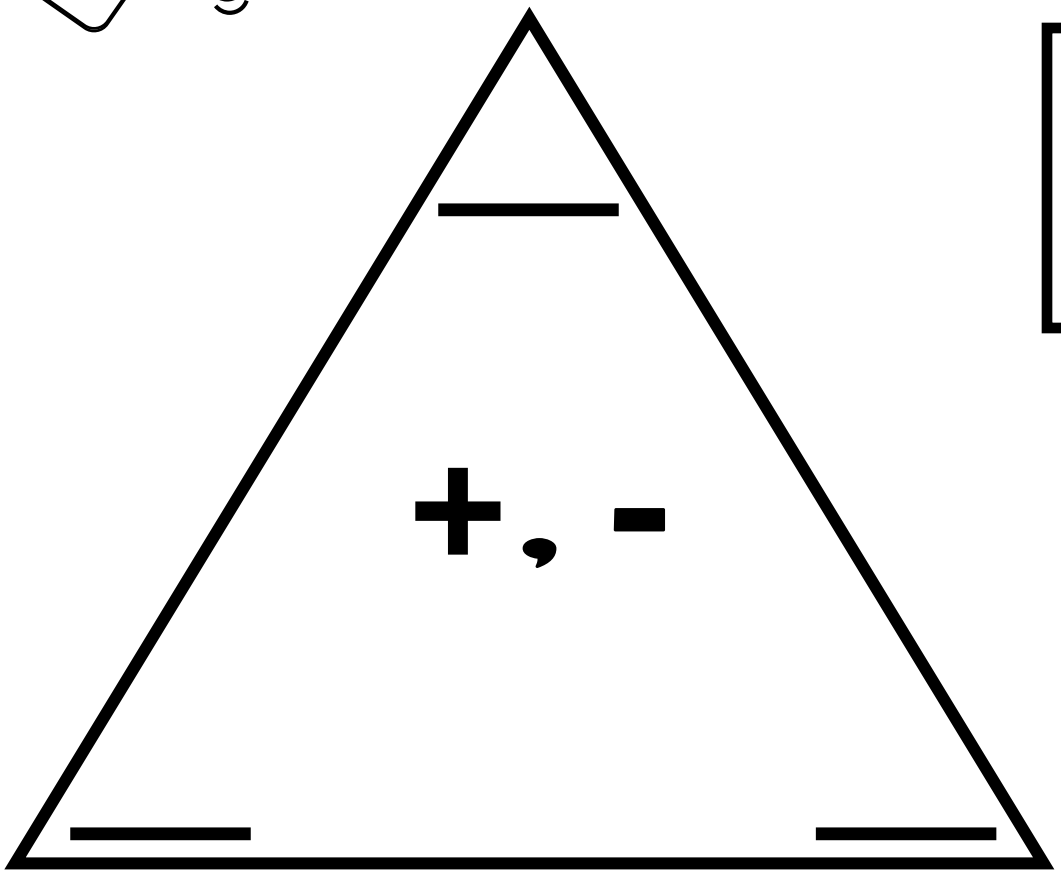


□ + □ = □

BOARD GAME TEMPLATE



FACT FAMILY TRIANGLE



____, ____, ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

Addition Number Paths

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

____ + ____ = ____

Addition Number Paths

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

____ + ____ = ____

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

____ + ____ = ____

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

____ + ____ = ____

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

____ + ____ = ____

Addition Number Paths 2

____ + ____ = ____ ____ + ____ = ____

____ + ____ = ____ ____ + ____ = ____

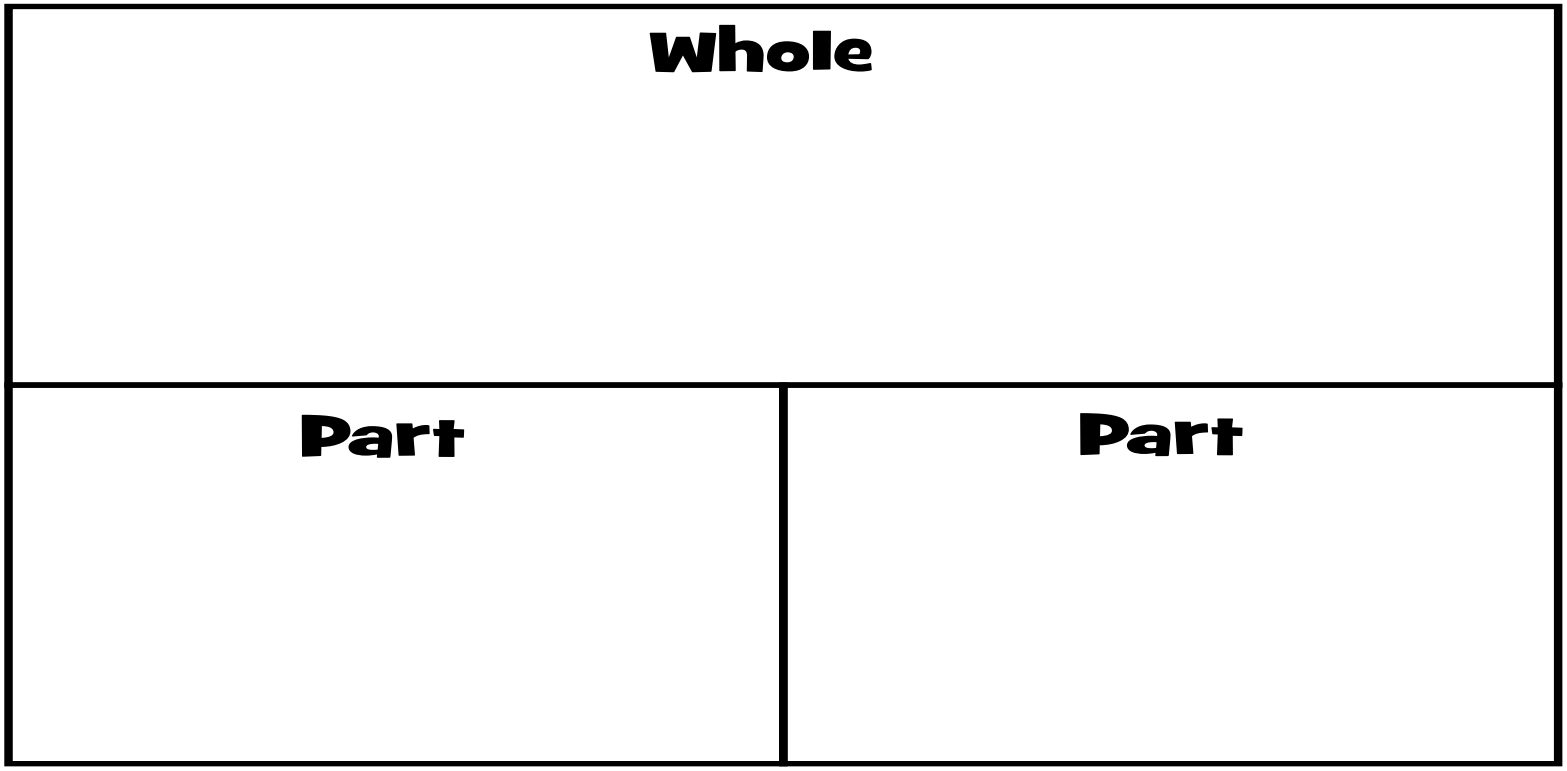
____ + ____ = ____ ____ + ____ = ____

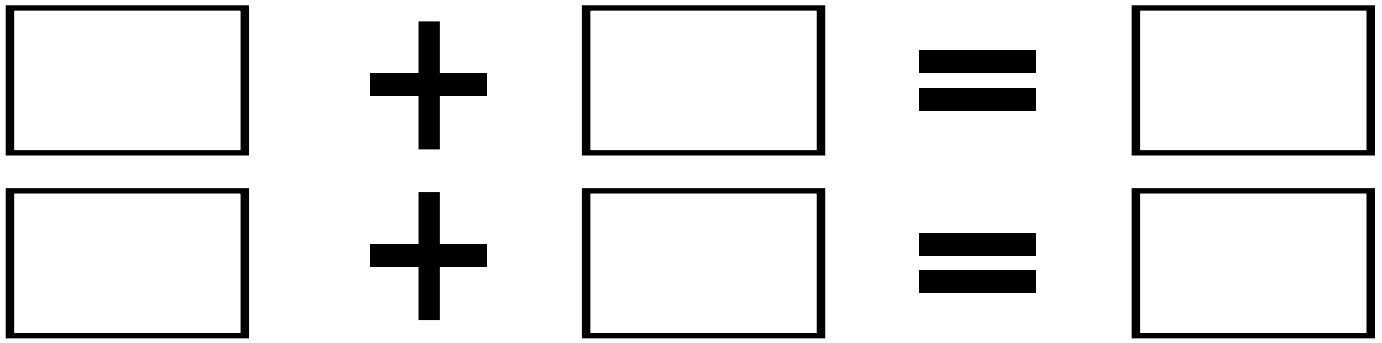
____ + ____ = ____ ____ + ____ = ____

Addition Number Paths 2

____ + ____ = ____	____ + ____ = ____
____ + ____ = ____	____ + ____ = ____
____ + ____ = ____	____ + ____ = ____
____ + ____ = ____	____ + ____ = ____

PART PART WHOLE MAT





Hundred Chart Addition

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

____ + ____ = ____ ____ + ____ = ____

____ + ____ = ____ ____ + ____ = ____

____ + ____ = ____ ____ + ____ = ____

____ + ____ = ____ ____ + ____ = ____

USING A HUNDREDS CHART

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

41
51
61
71

A COLUMN GOES **UP** AND **DOWN**

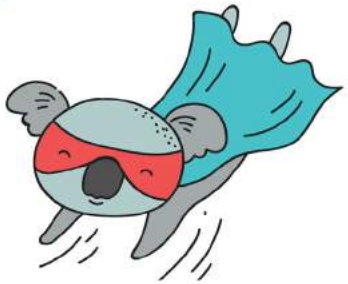
IT GOES BY **10s**

A ROW GOES **LEFT** AND **RIGHT**

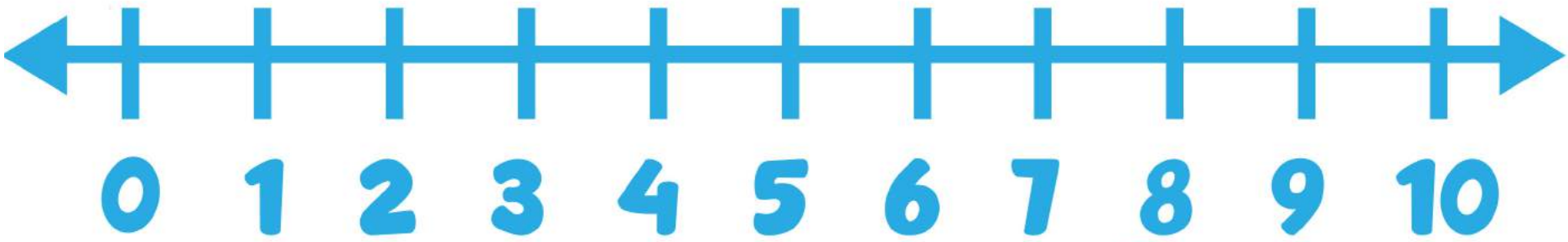
34	35	36	37

IT GOES BY **1s**

A NUMBER LINE



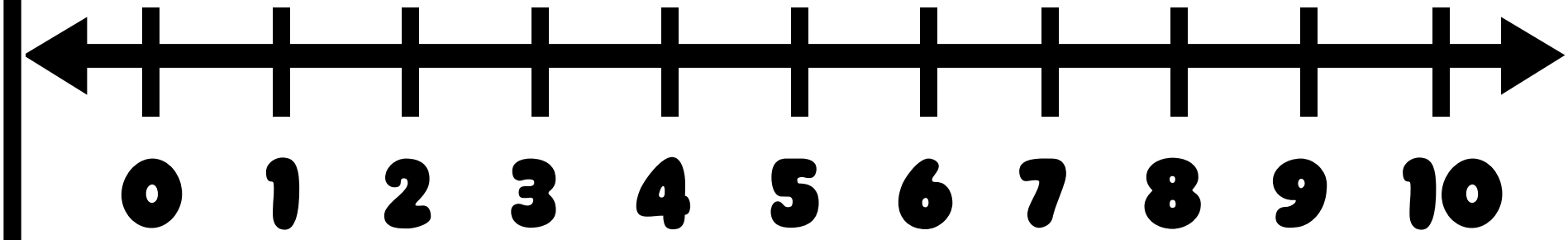
NUMBERS GET SMALLER WHEN YOU COUNT DOWN



NUMBERS GET LARGER WHEN YOU COUNT UP

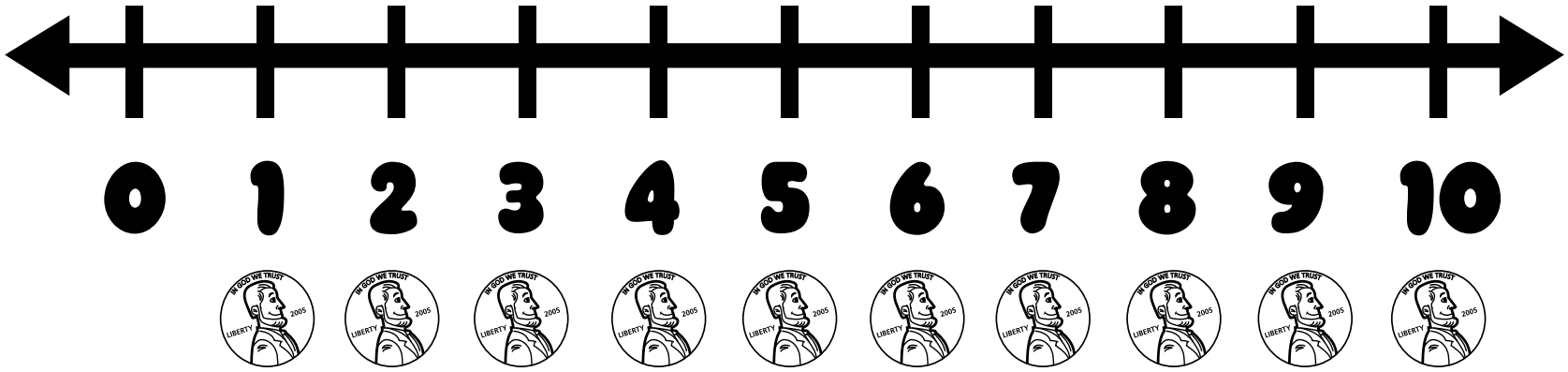
A NUMBER LINE

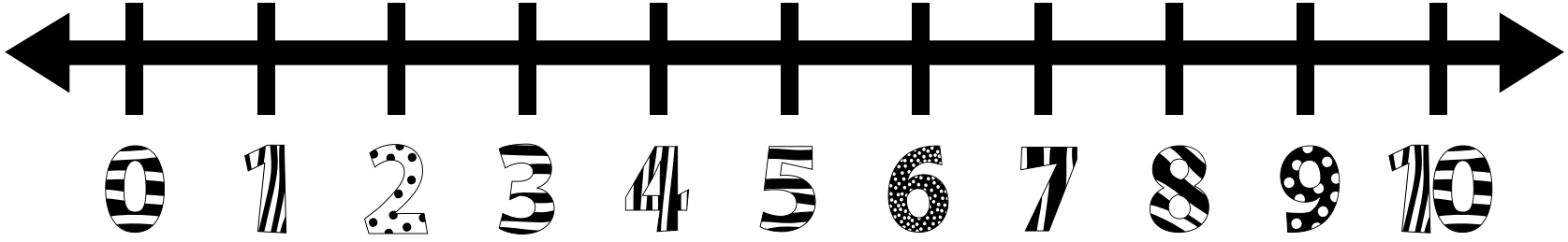
NUMBERS GET SMALLER WHEN YOU COUNT DOWN



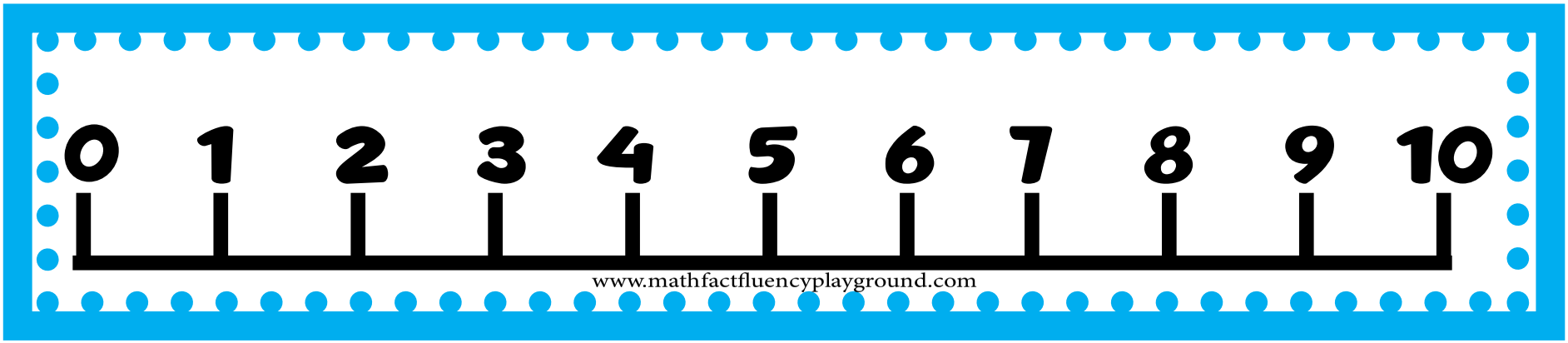
NUMBERS GET **SMALLER** WHEN YOU COUNT UP

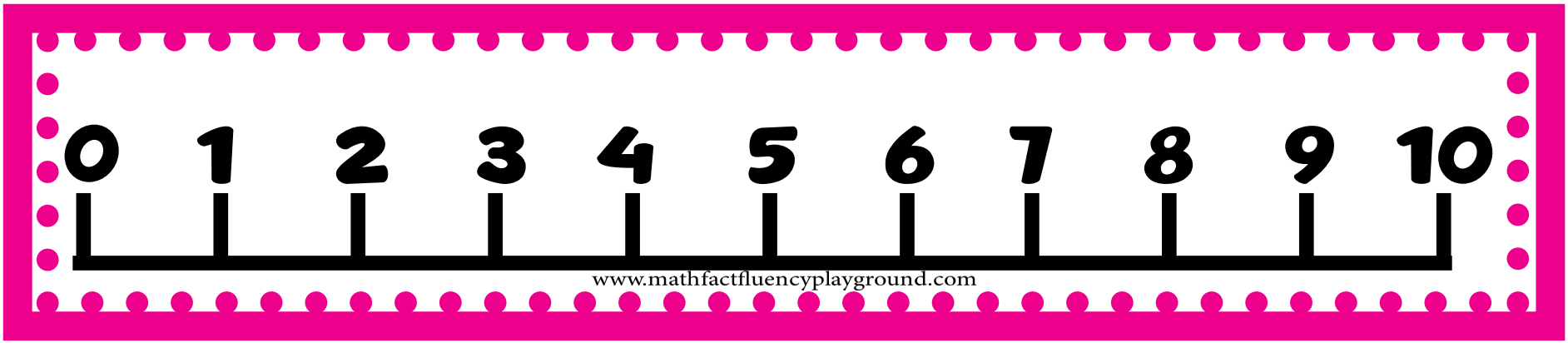
Number Lines to 10

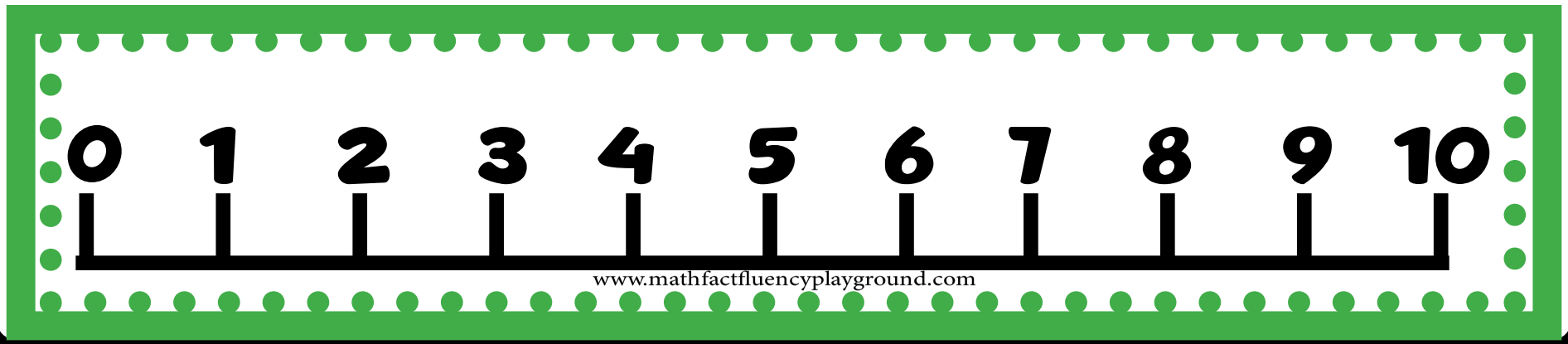




NUMBER LINE TO 10







NUMBER LADDER TO 10

10
9
8
7
6
5
4
3
2
1
0

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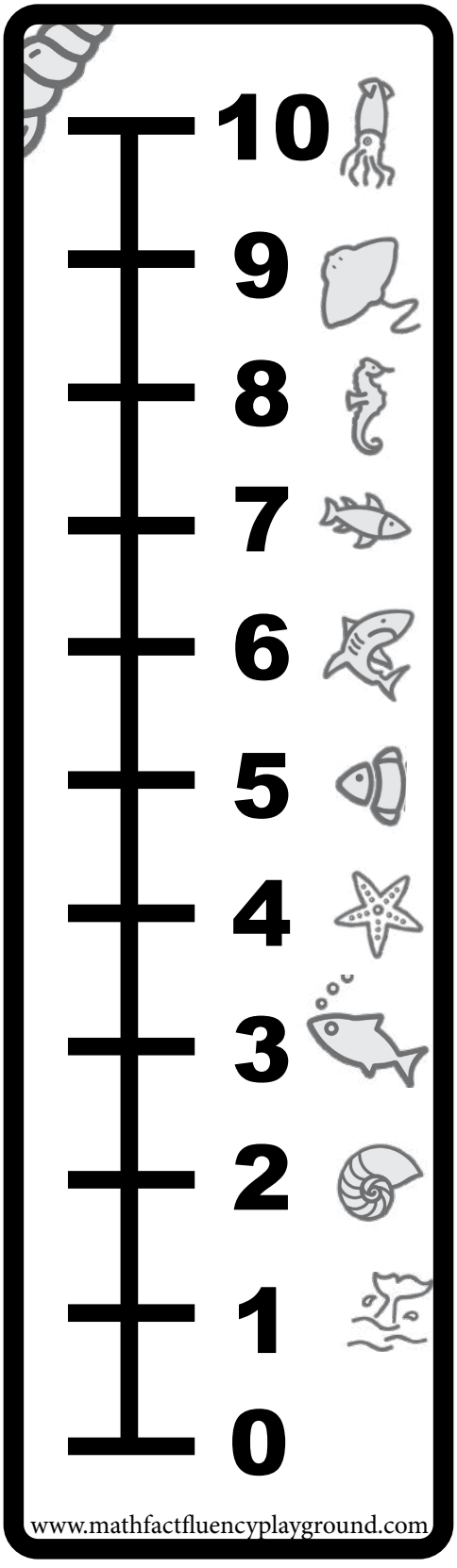

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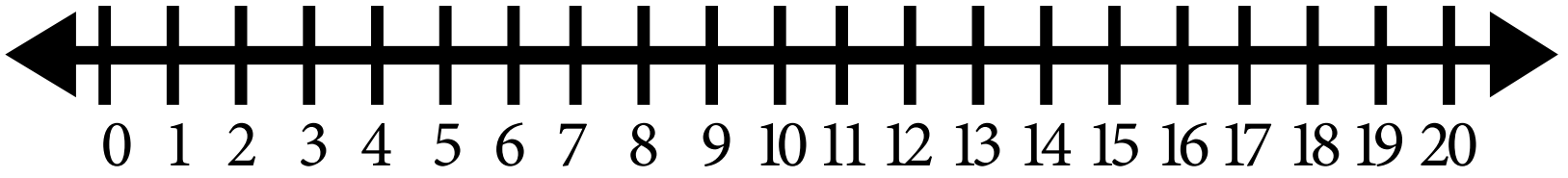
NUMBER LINE TO 20



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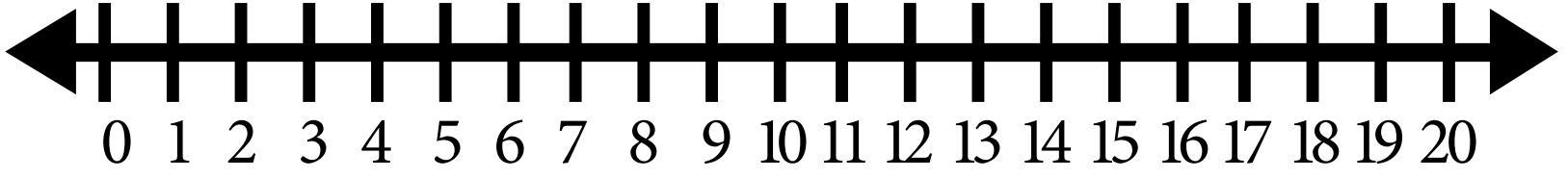

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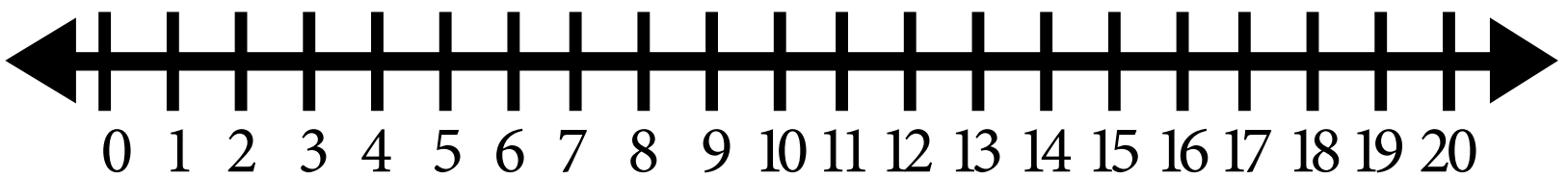

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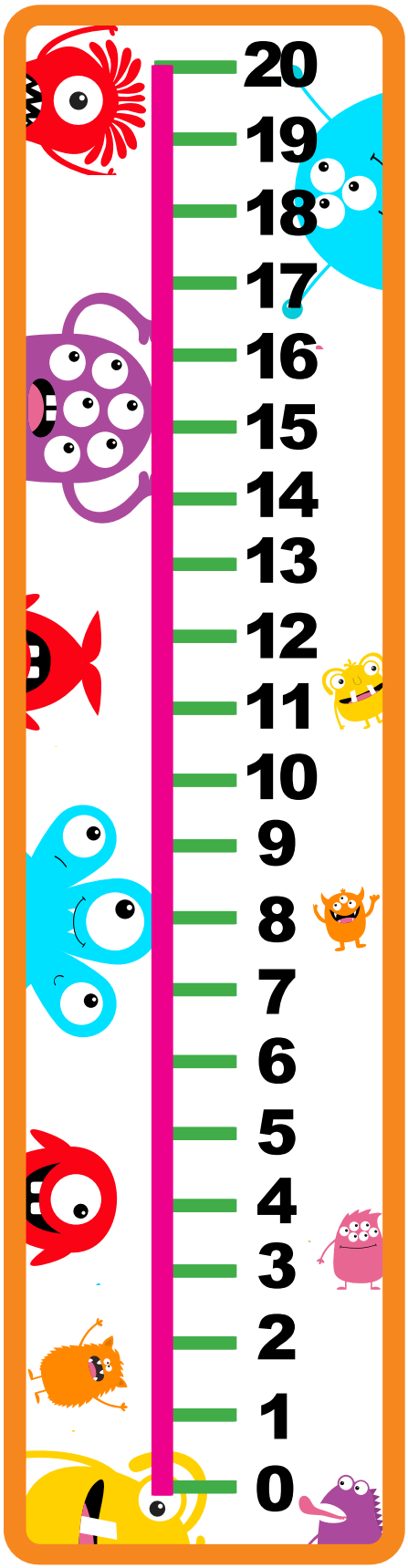
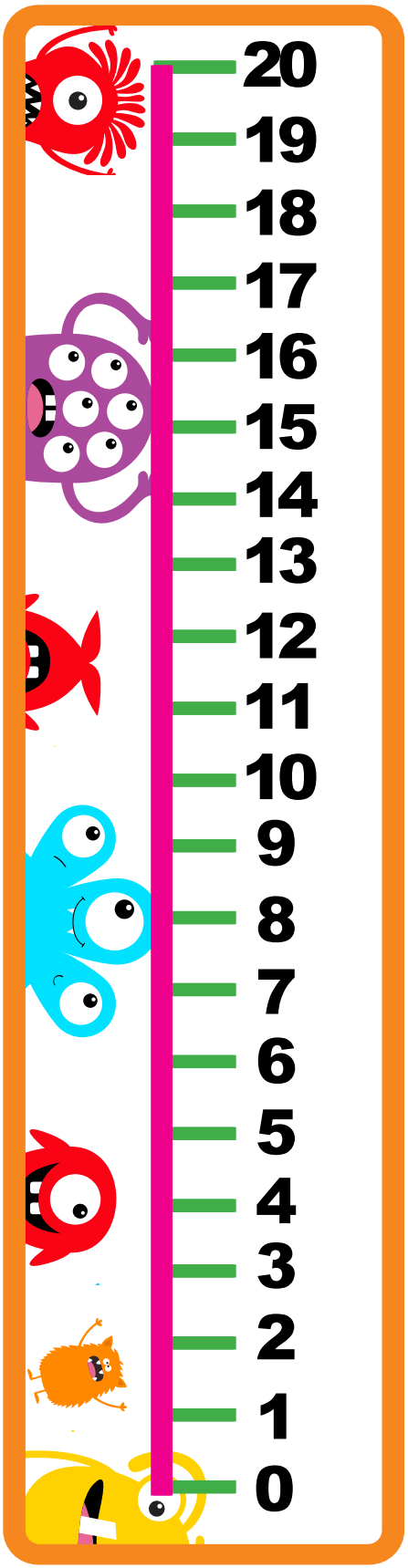
NUMBER LADDER TO 20





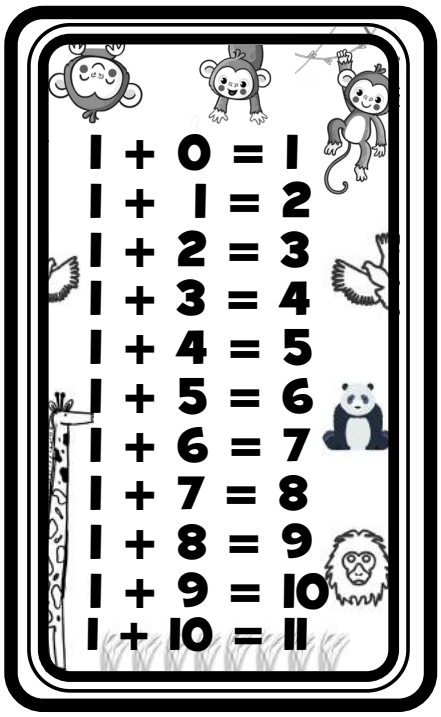
ADDITION CHART

+	1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12	13
2	3	4	5	6	7	8	9	10	11	12	13	14
3	4	5	6	7	8	9	10	11	12	13	14	15
4	5	6	7	8	9	10	11	12	13	14	15	16
5	6	7	8	9	10	11	12	13	14	15	16	17
6	7	8	9	10	11	12	13	14	15	16	17	18
7	8	9	10	11	12	13	14	15	16	17	18	19
8	9	10	11	12	13	14	15	16	17	18	19	20
9	10	11	12	13	14	15	16	17	18	19	20	21
10	11	12	13	14	15	16	17	18	19	20	21	22
11	12	13	14	15	16	17	18	19	20	21	22	23
12	13	14	15	16	17	18	19	20	21	22	23	24

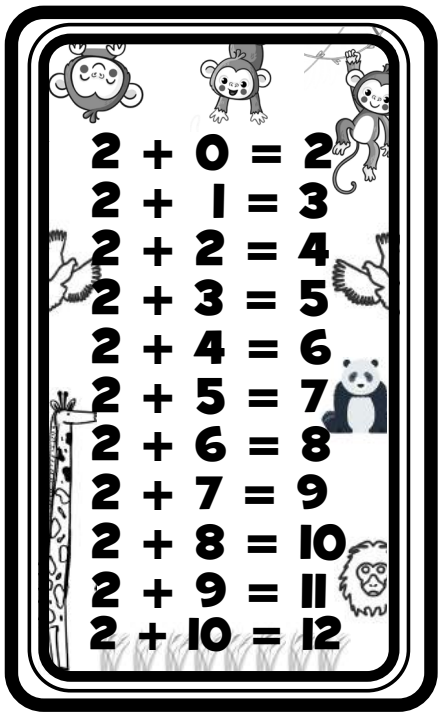
ADDITION TABLE

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

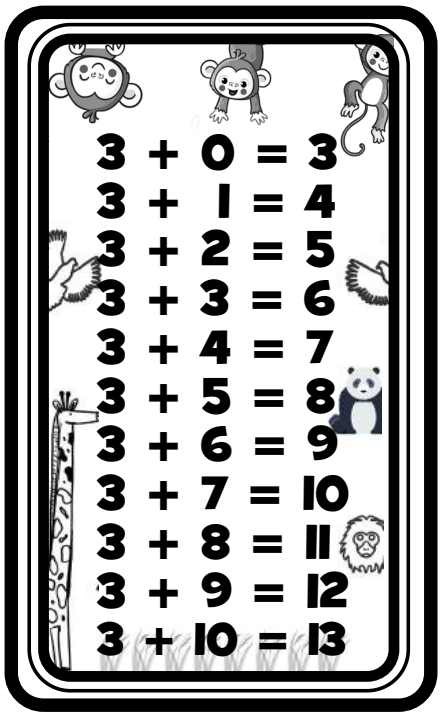
ADDITION TABLE



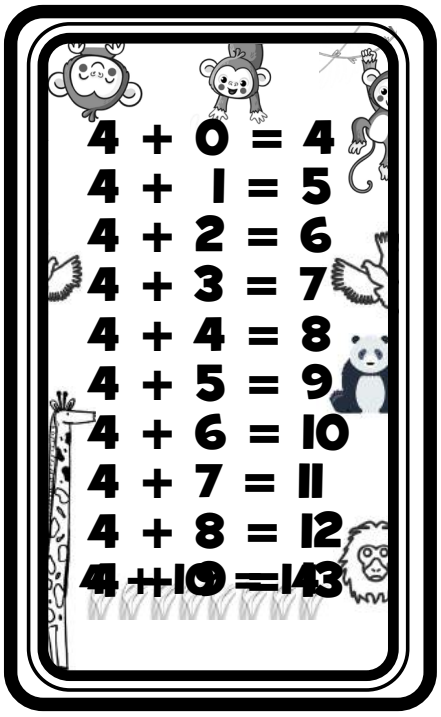
1 + 0 = 1
1 + 1 = 2
1 + 2 = 3
1 + 3 = 4
1 + 4 = 5
1 + 5 = 6
1 + 6 = 7
1 + 7 = 8
1 + 8 = 9
1 + 9 = 10
1 + 10 = 11



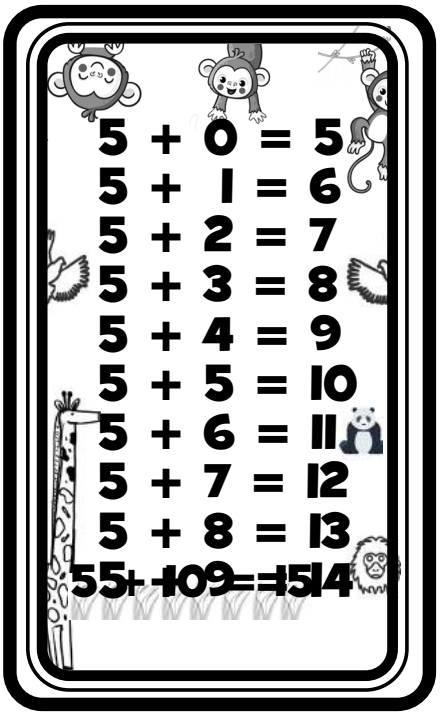
2 + 0 = 2
2 + 1 = 3
2 + 2 = 4
2 + 3 = 5
2 + 4 = 6
2 + 5 = 7
2 + 6 = 8
2 + 7 = 9
2 + 8 = 10
2 + 9 = 11
2 + 10 = 12



3 + 0 = 3
3 + 1 = 4
3 + 2 = 5
3 + 3 = 6
3 + 4 = 7
3 + 5 = 8
3 + 6 = 9
3 + 7 = 10
3 + 8 = 11
3 + 9 = 12
3 + 10 = 13

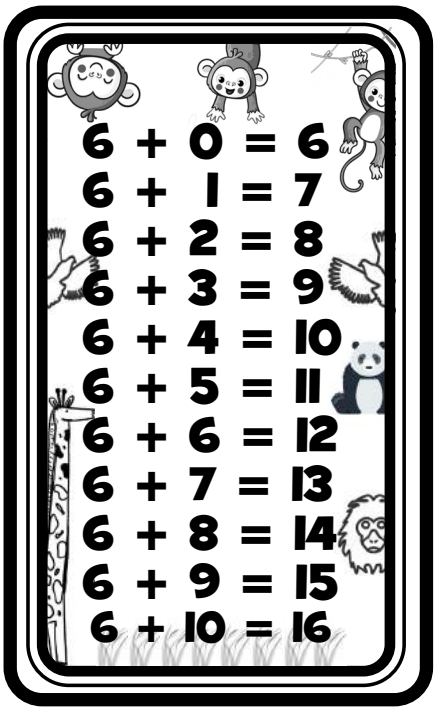


4 + 0 = 4
4 + 1 = 5
4 + 2 = 6
4 + 3 = 7
4 + 4 = 8
4 + 5 = 9
4 + 6 = 10
4 + 7 = 11
4 + 8 = 12
4 + 10 = 14

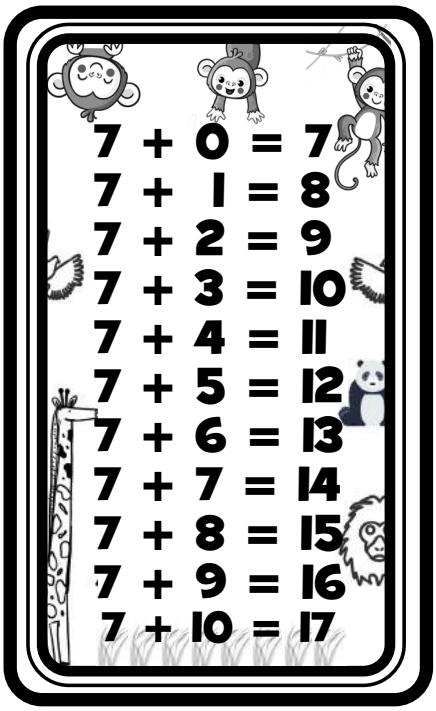


5 + 0 = 5
5 + 1 = 6
5 + 2 = 7
5 + 3 = 8
5 + 4 = 9
5 + 5 = 10
5 + 6 = 11
5 + 7 = 12
5 + 8 = 13
5 + 10 = 15

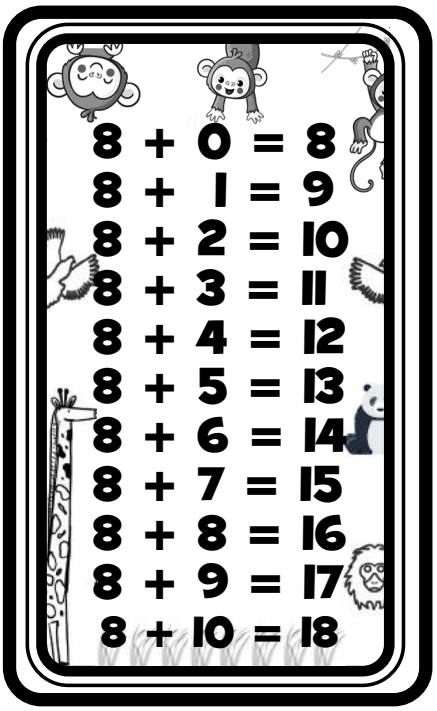
ADDITION TABLE



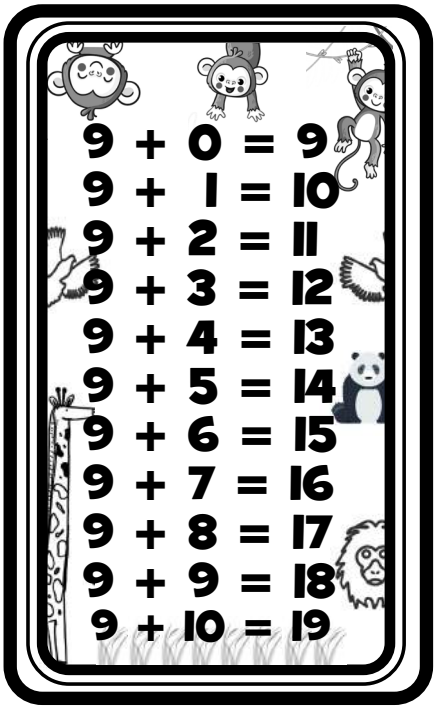
6 + 0 = 6
6 + 1 = 7
6 + 2 = 8
6 + 3 = 9
6 + 4 = 10
6 + 5 = 11
6 + 6 = 12
6 + 7 = 13
6 + 8 = 14
6 + 9 = 15
6 + 10 = 16



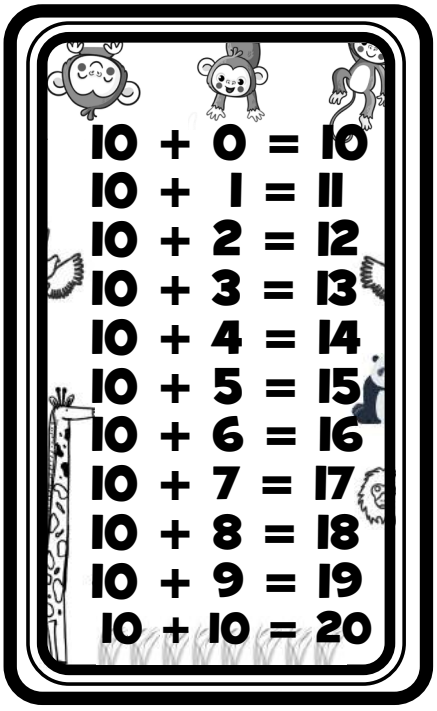
7 + 0 = 7
7 + 1 = 8
7 + 2 = 9
7 + 3 = 10
7 + 4 = 11
7 + 5 = 12
7 + 6 = 13
7 + 7 = 14
7 + 8 = 15
7 + 9 = 16
7 + 10 = 17



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

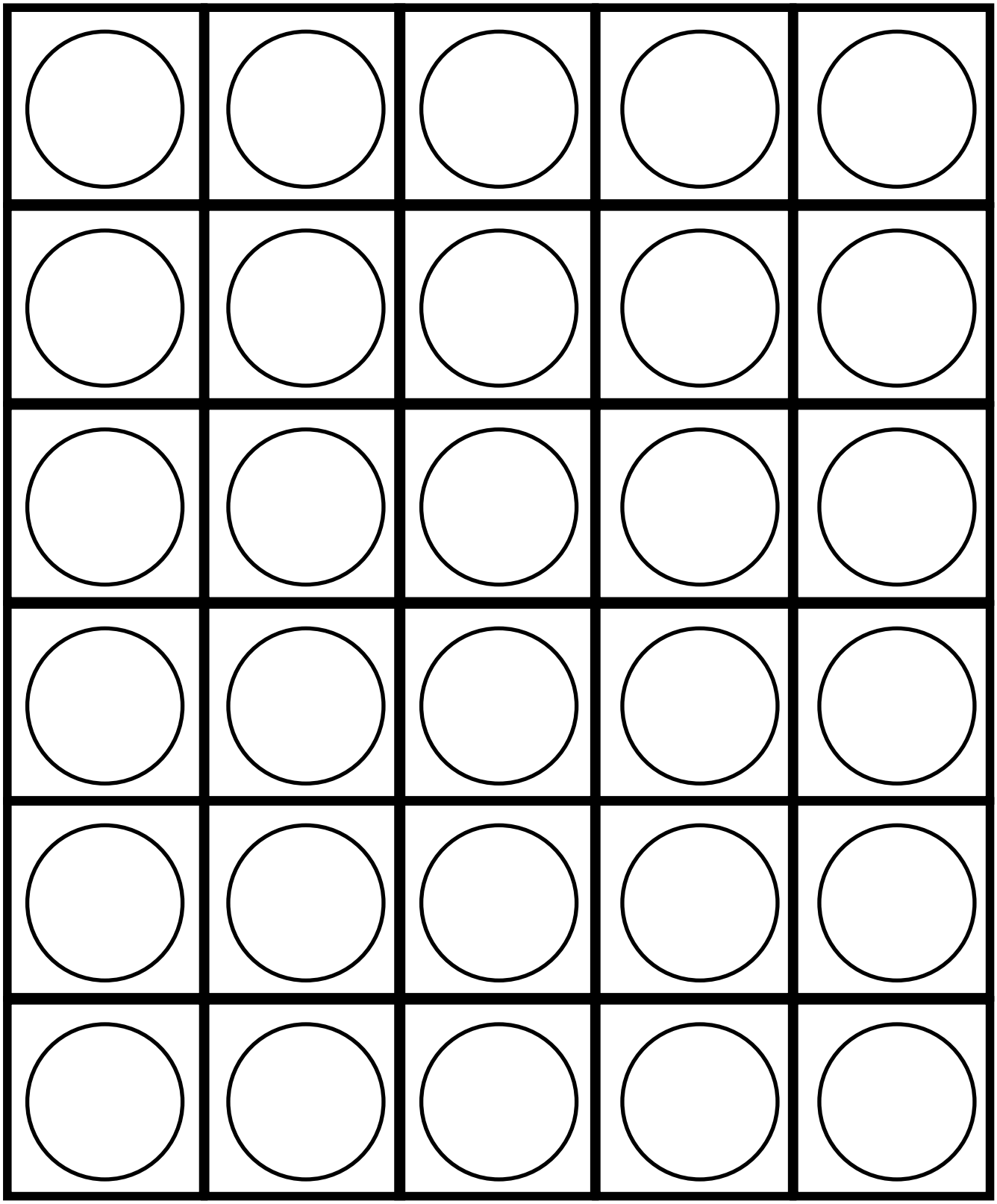


9 + 0 = 9
9 + 1 = 10
9 + 2 = 11
9 + 3 = 12
9 + 4 = 13
9 + 5 = 14
9 + 6 = 15
9 + 7 = 16
9 + 8 = 17
9 + 9 = 18
9 + 10 = 19

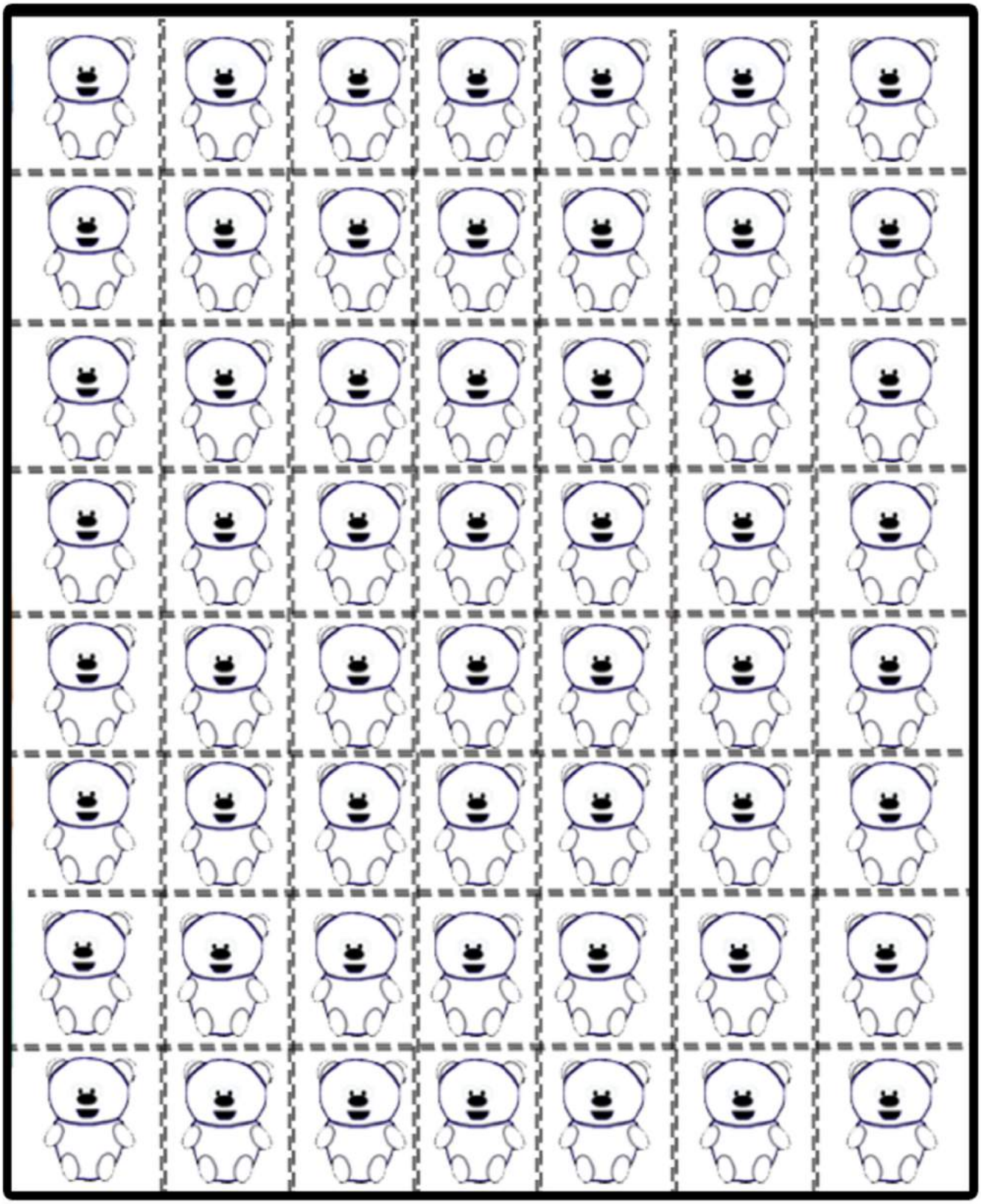


10 + 0 = 10
10 + 1 = 11
10 + 2 = 12
10 + 3 = 13
10 + 4 = 14
10 + 5 = 15
10 + 6 = 16
10 + 7 = 17
10 + 8 = 18
10 + 9 = 19
10 + 10 = 20

Circle Counters

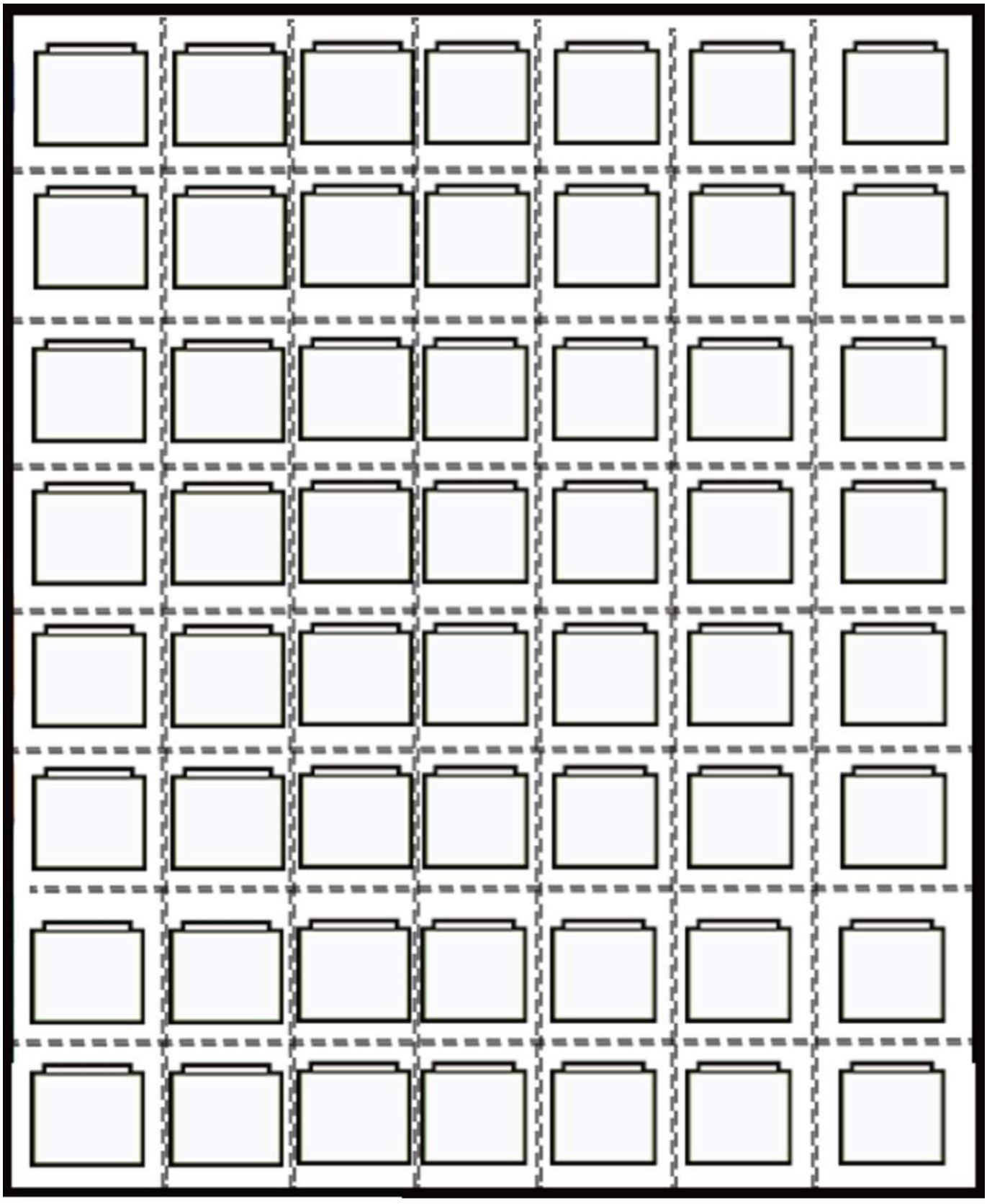


Bear Counters

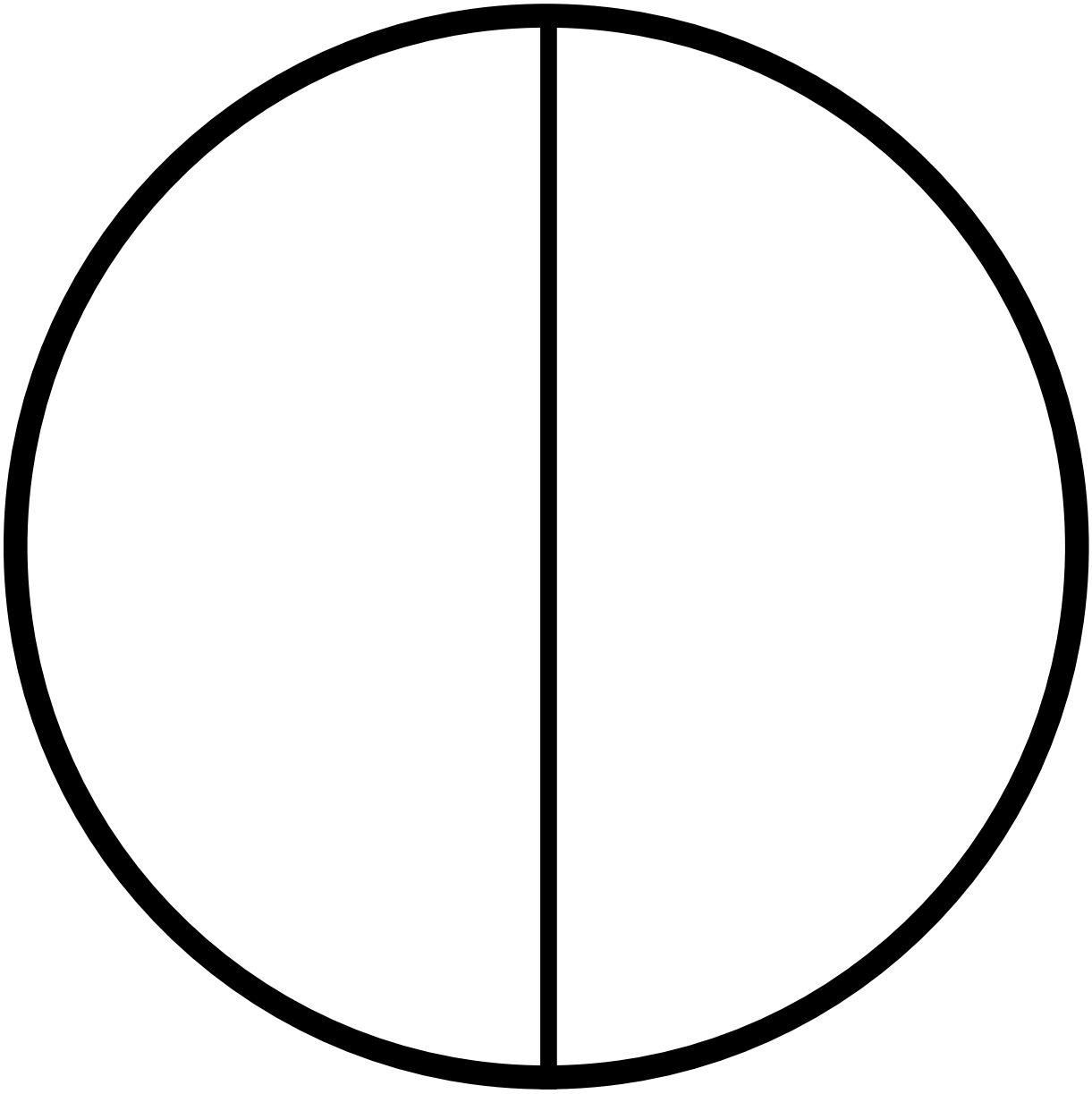


Penny Counters

Cube Counters



SPINNER



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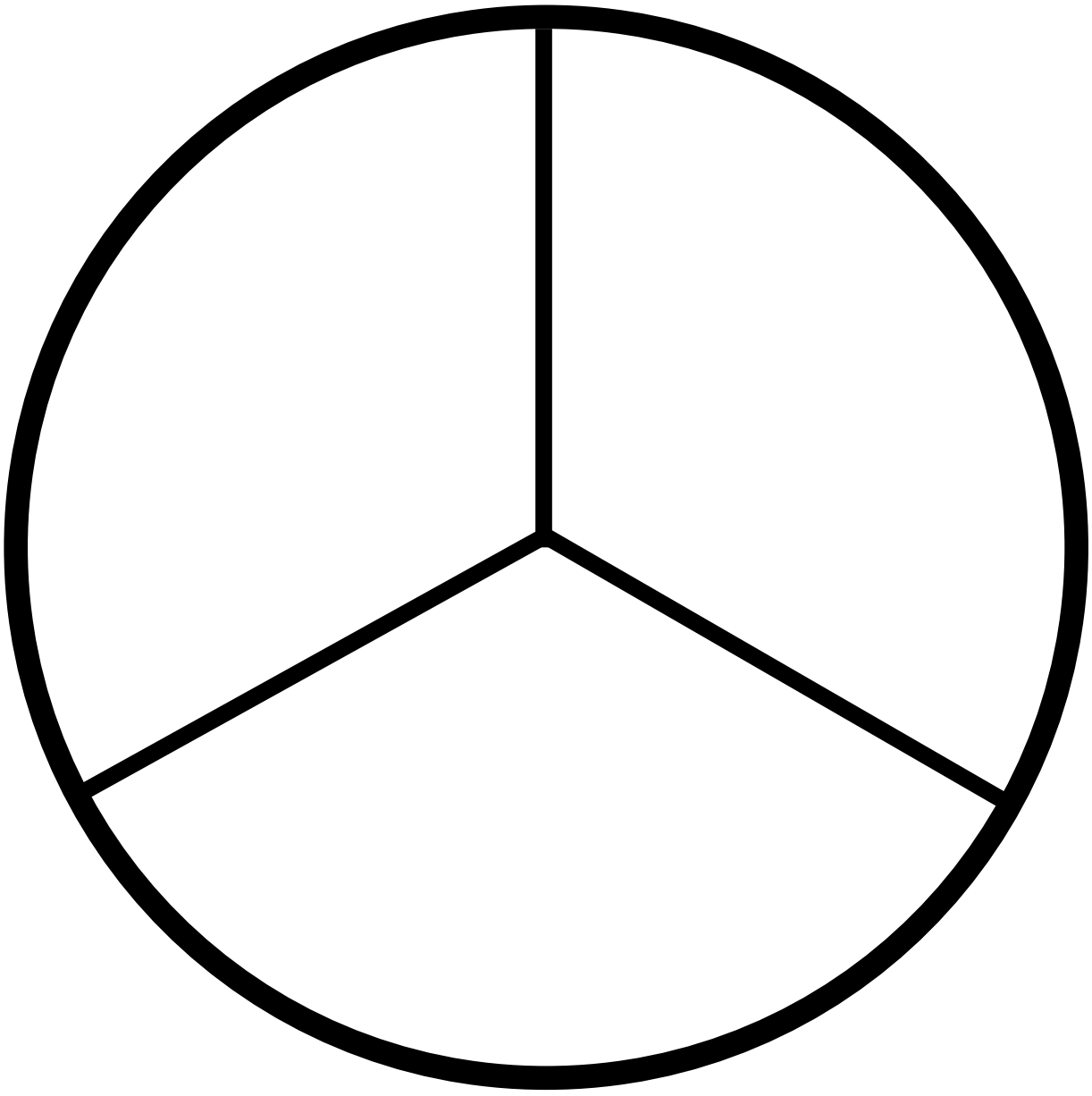

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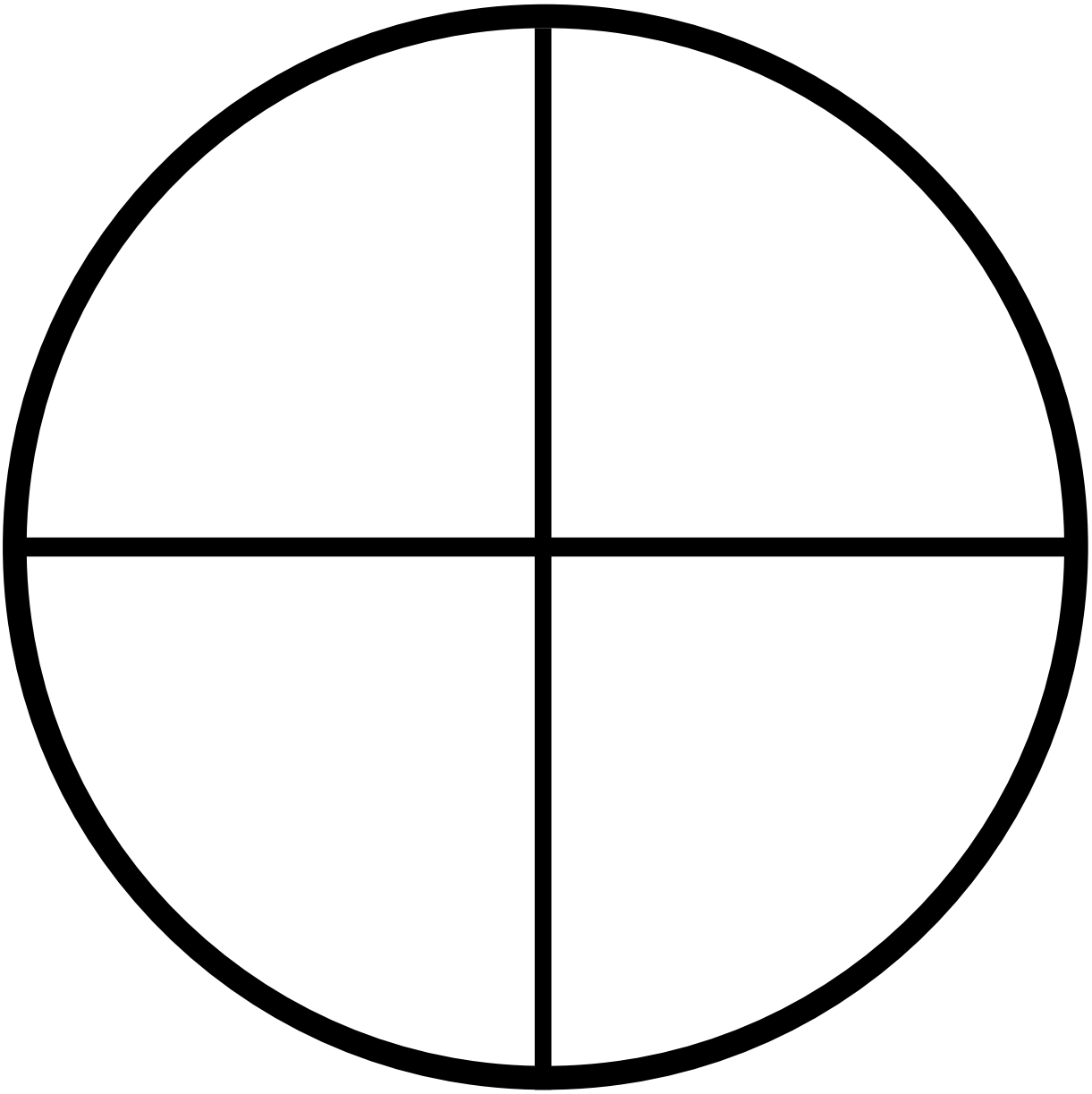

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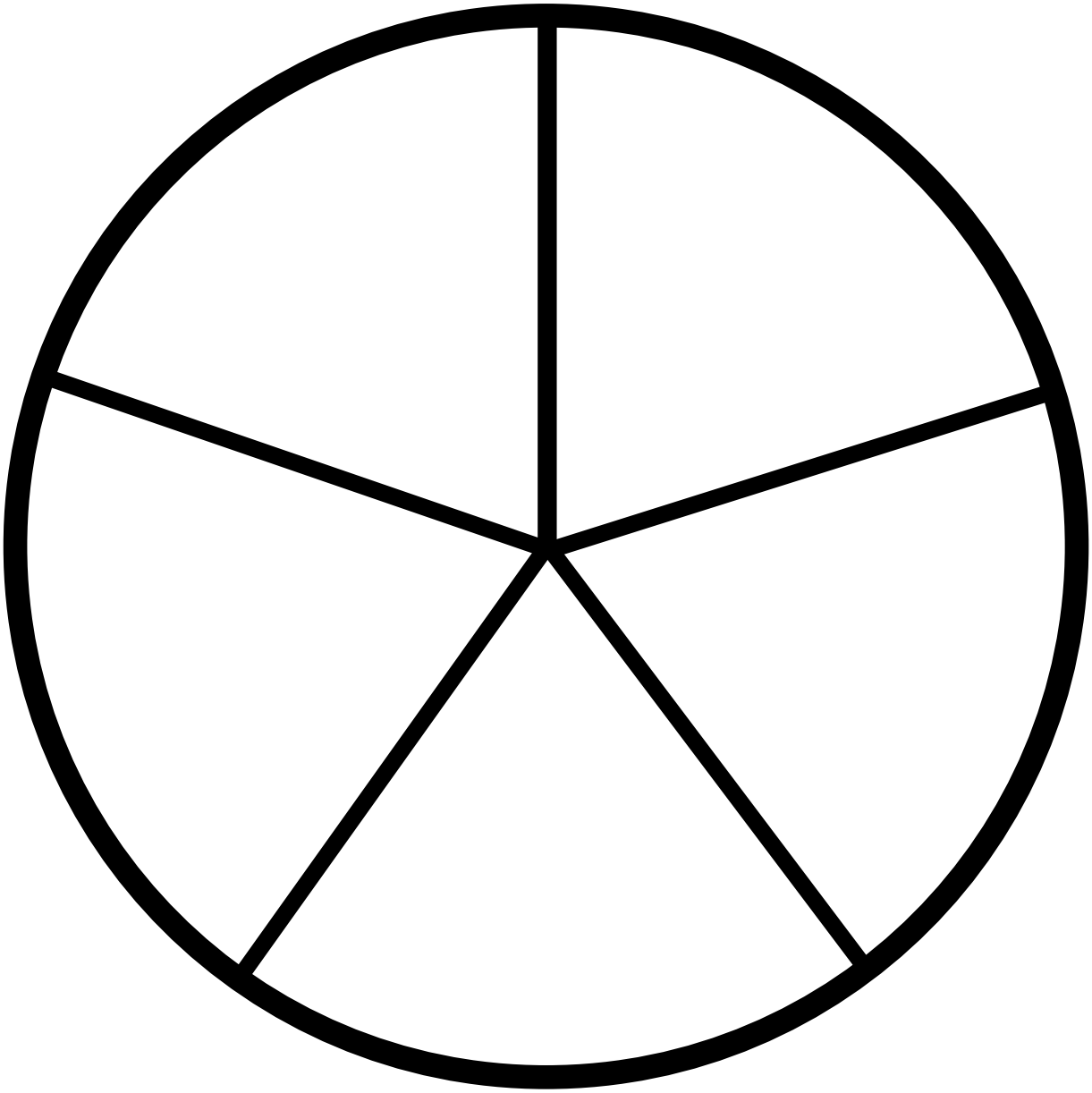

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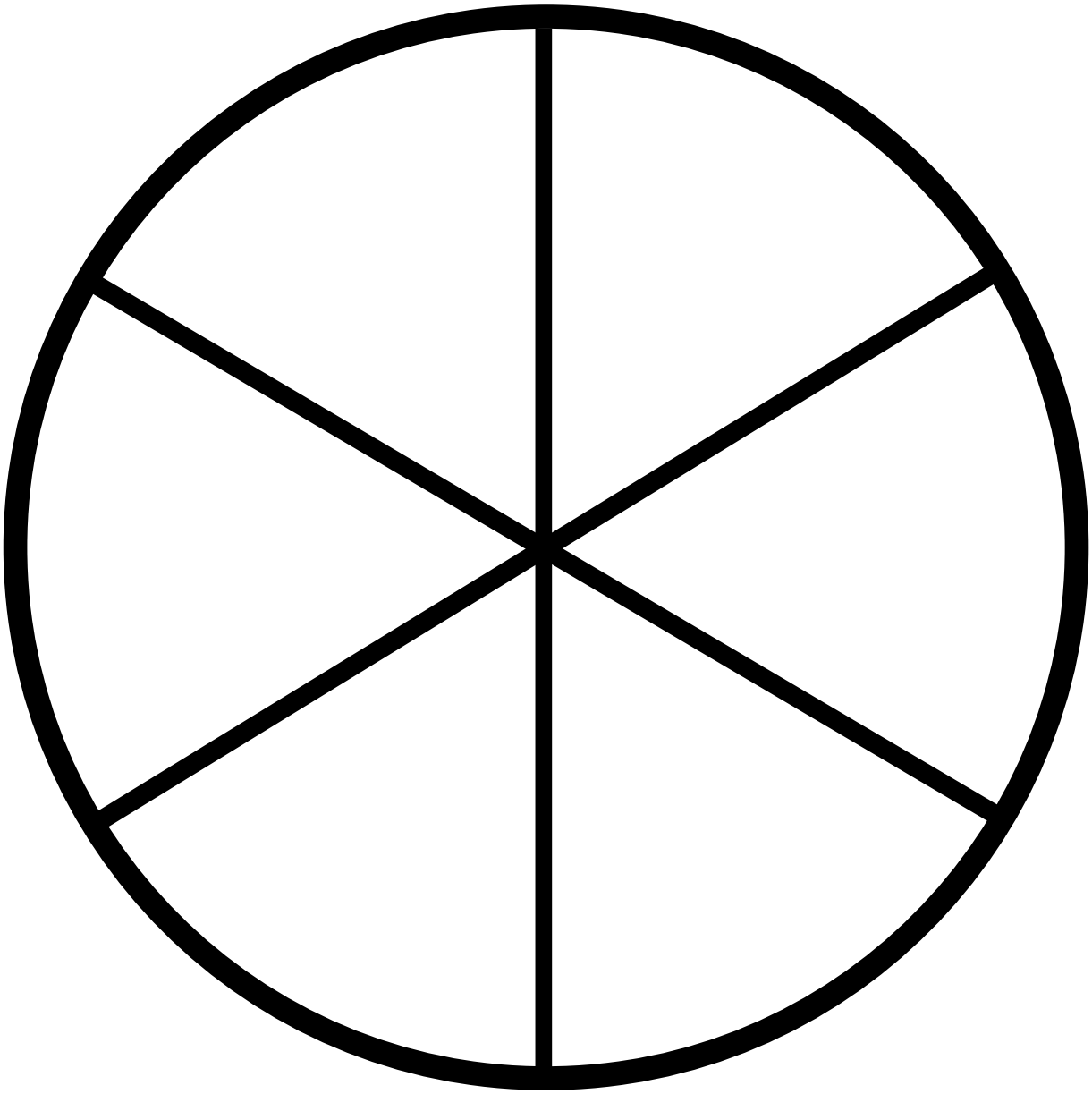
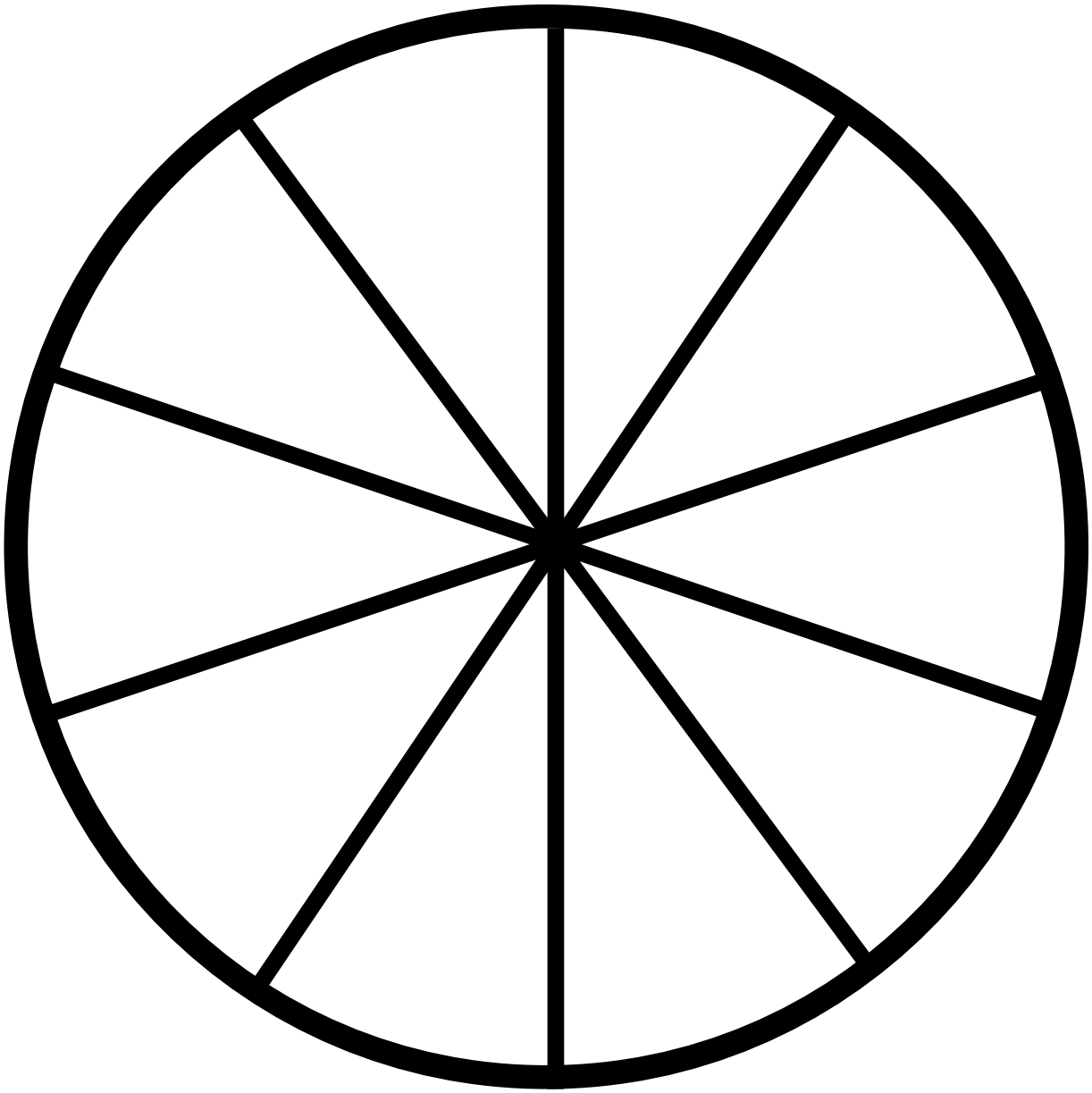
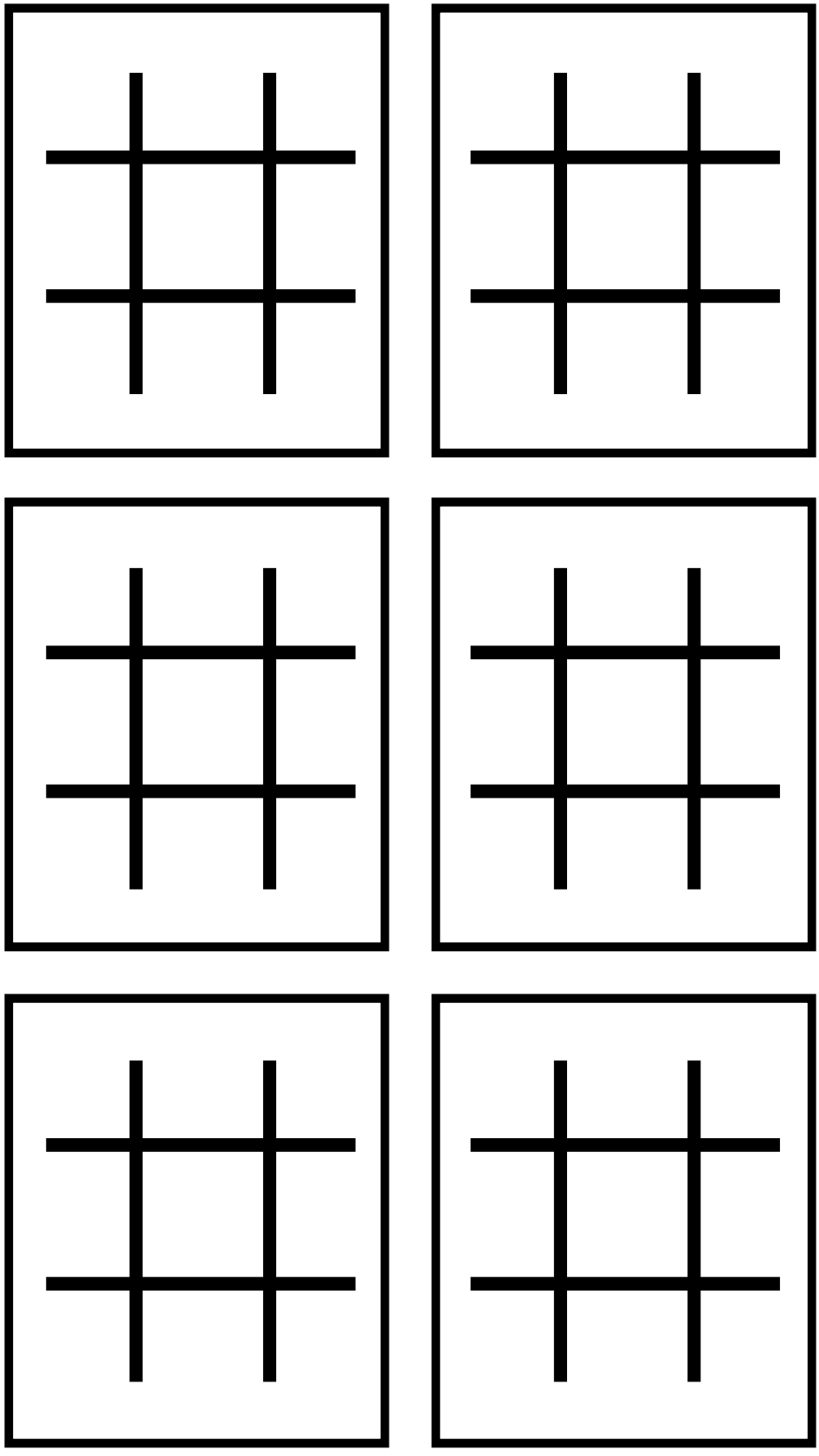


SPINNER



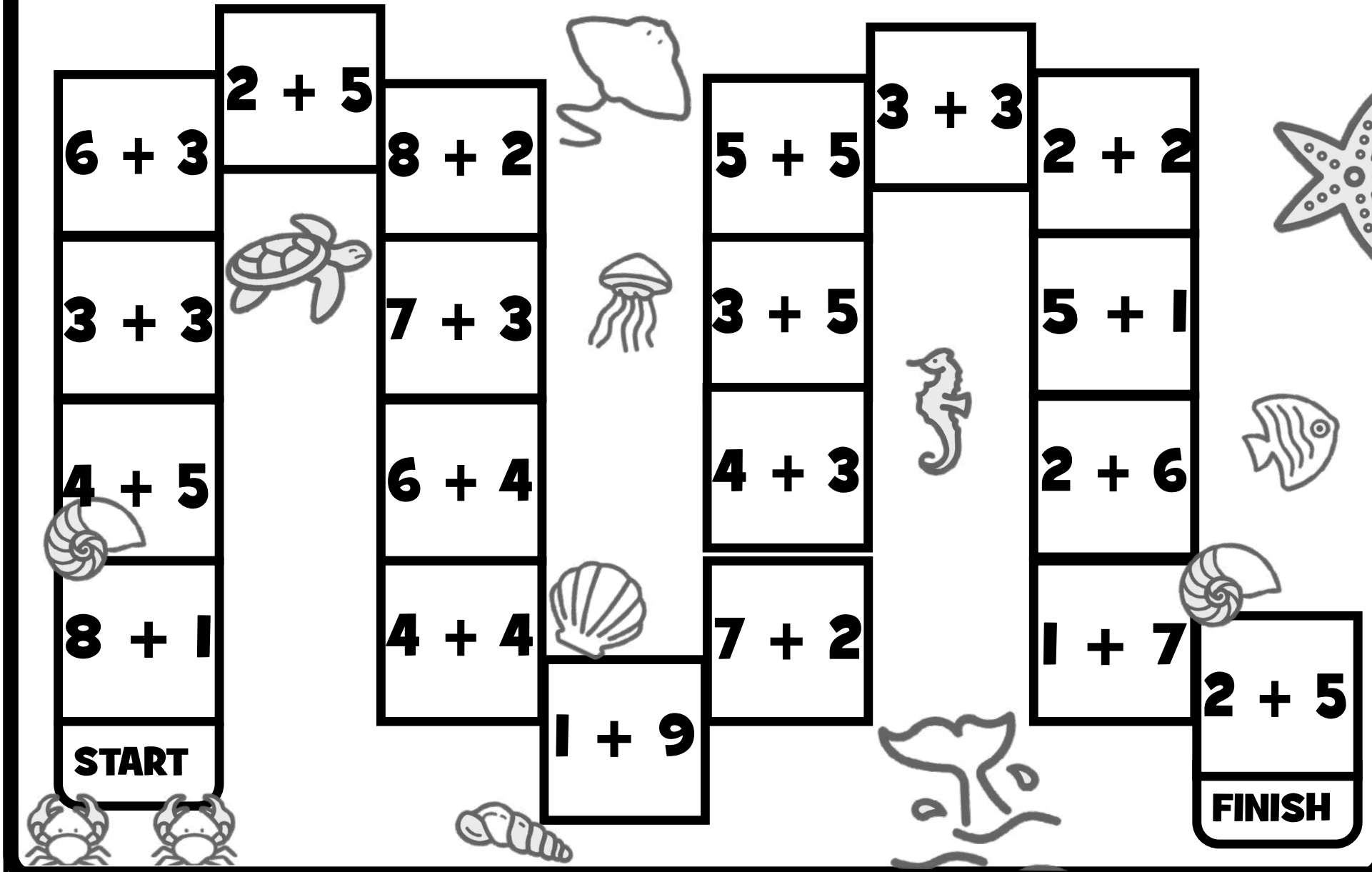
Tic Tac Toe



ADDING WITHIN 10

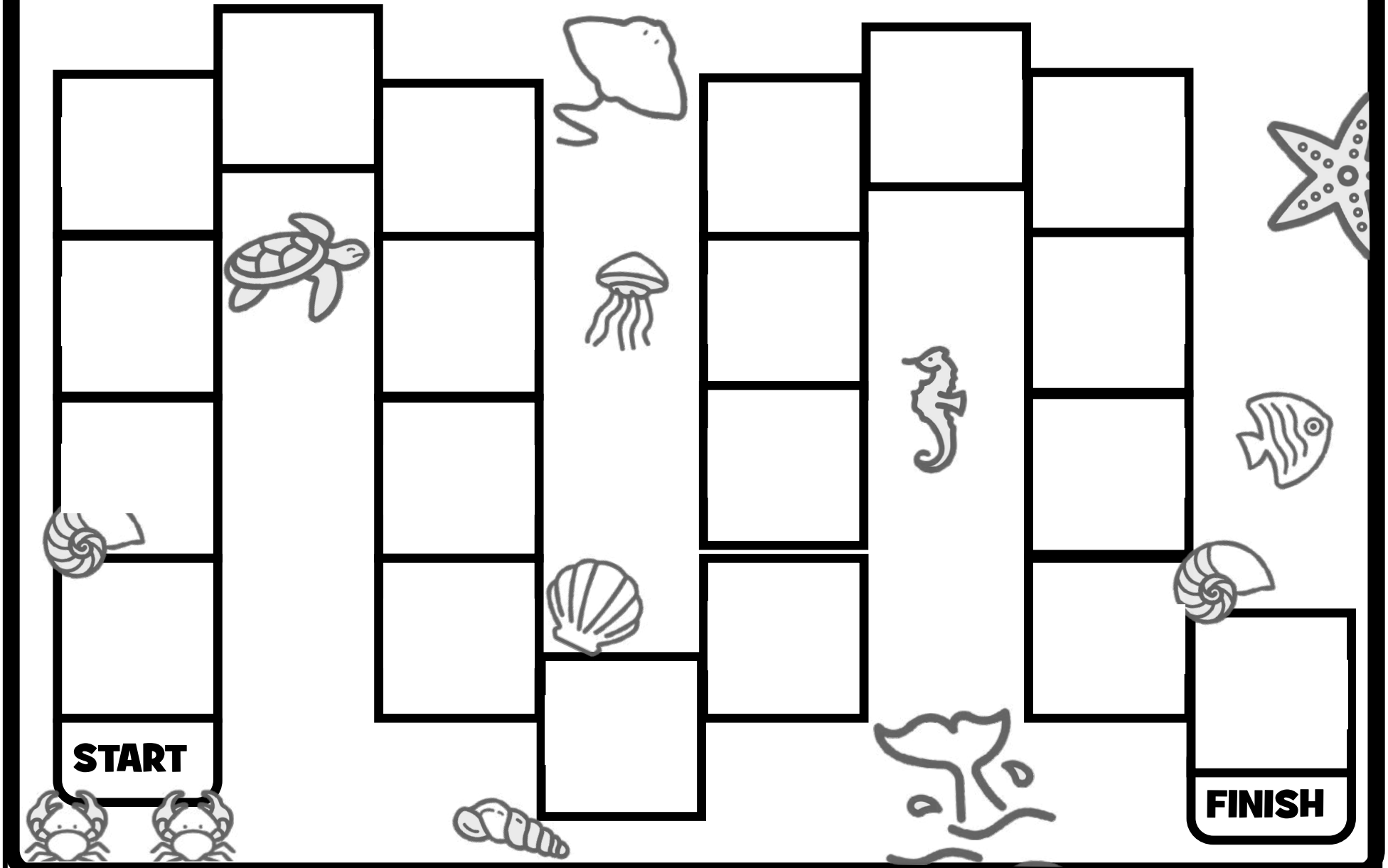
ADDITION BOARD GAME

Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!

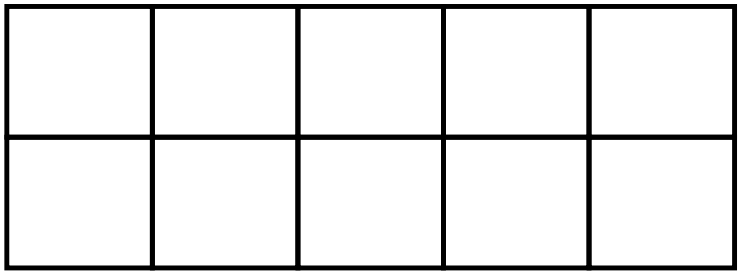
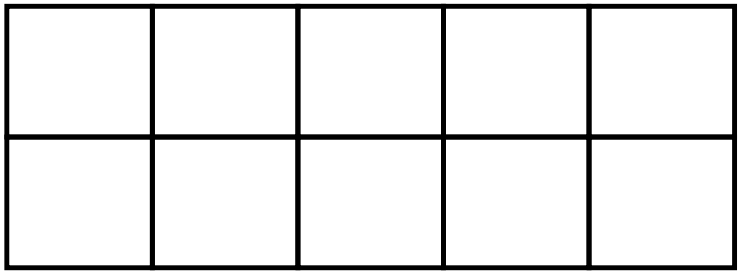


ADDING WITHIN 10
ADDITION BOARD GAME

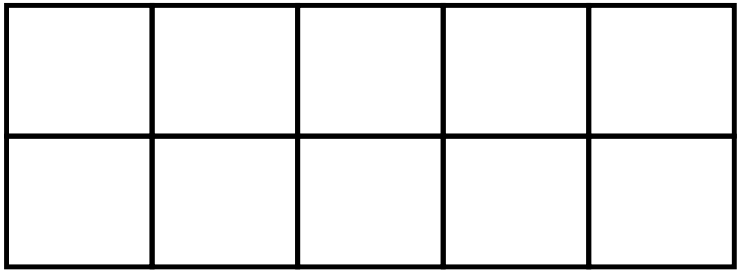
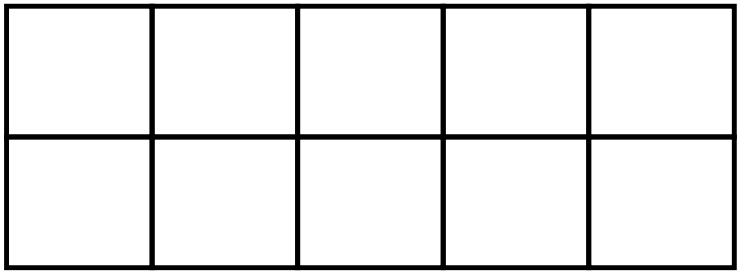
Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!



Addition Mat

Tens	Ones
	
	

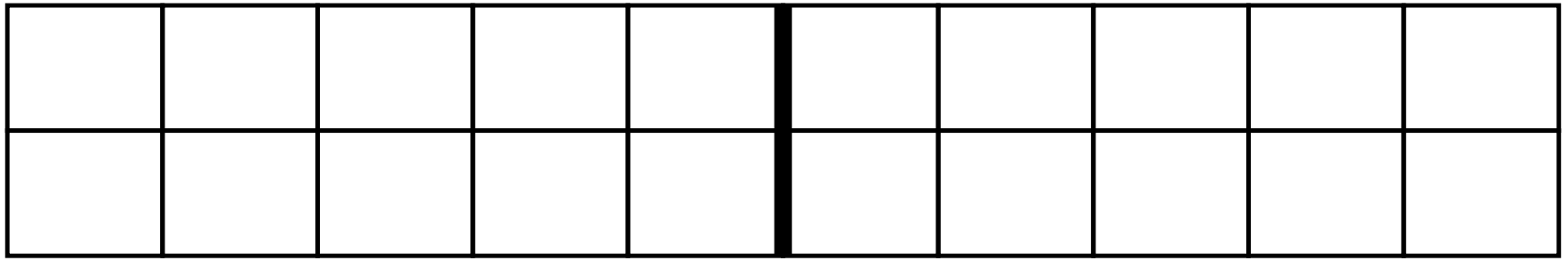
Addition Mat

Tens	Ones
	
	

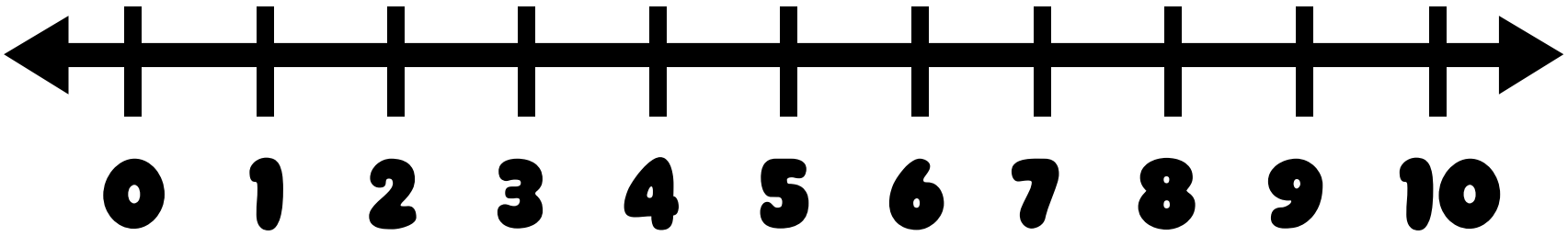
Addition Mat

Addition Mat

Addition Mat



Addition Mat



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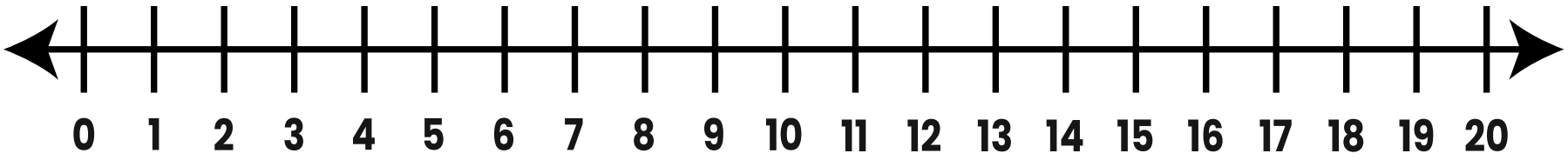

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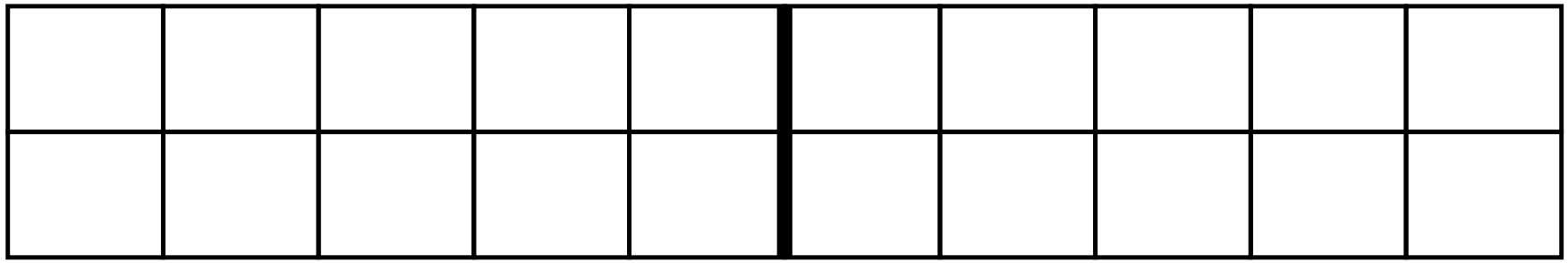
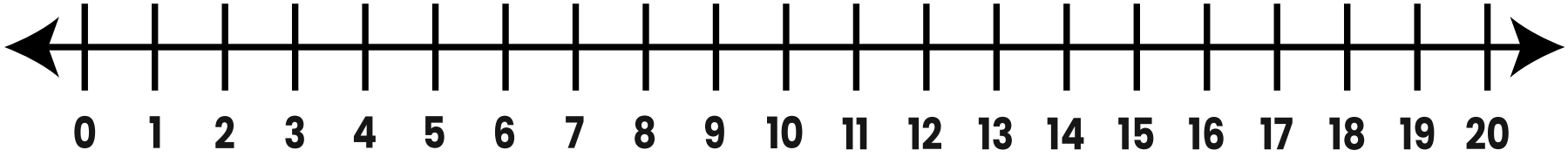




Addition Mat

1	2	3	4	5	6	7	8	9	10

Addition Mat

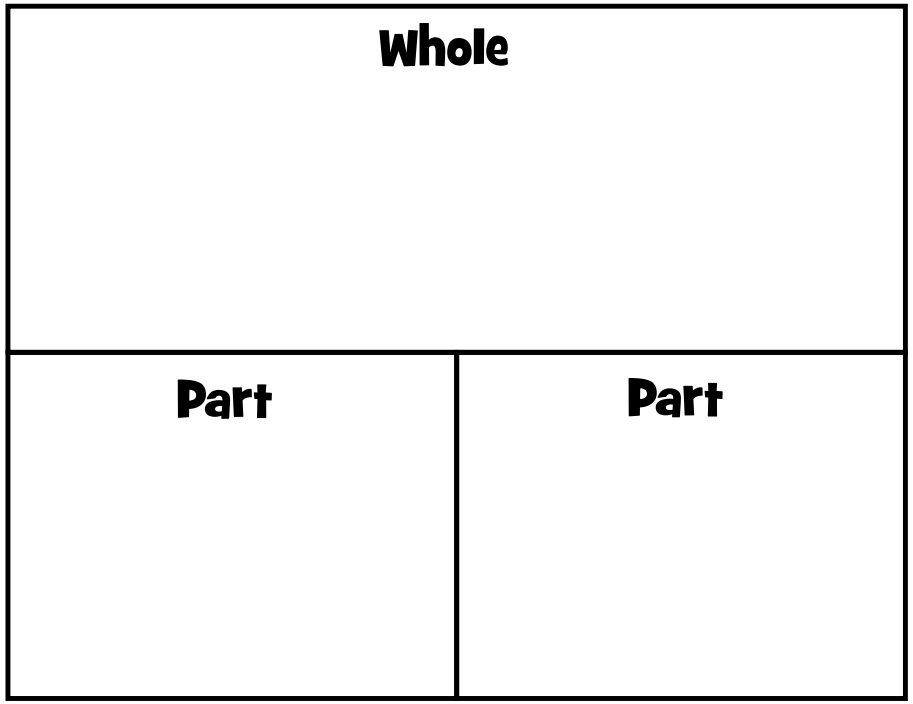
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

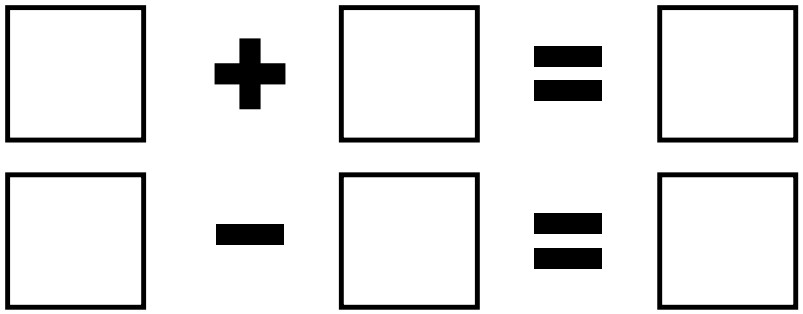
Addition Mat

Addition Mat

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

Addition Mat





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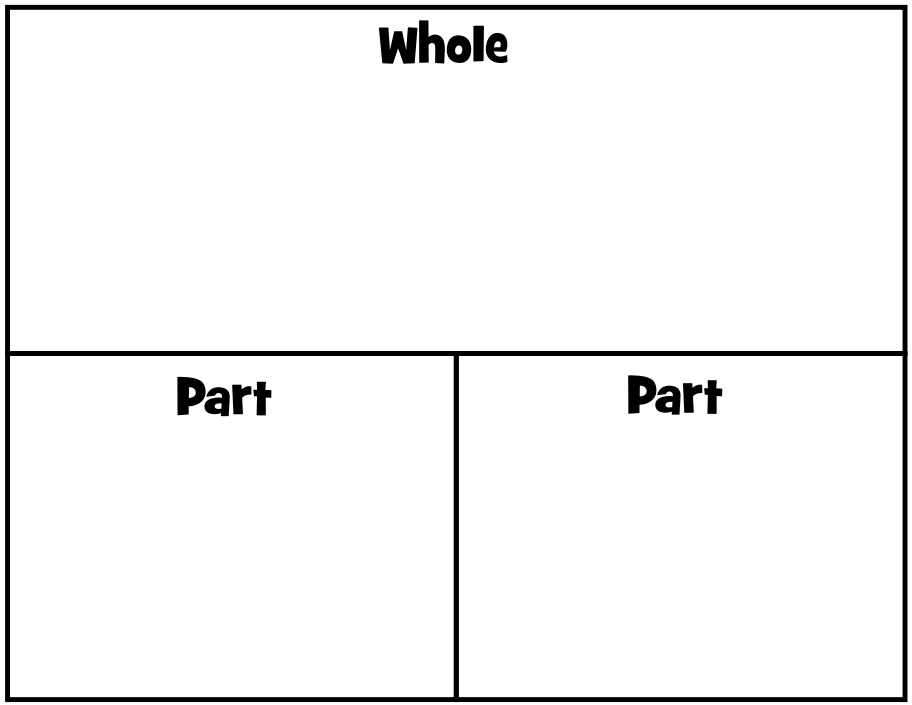
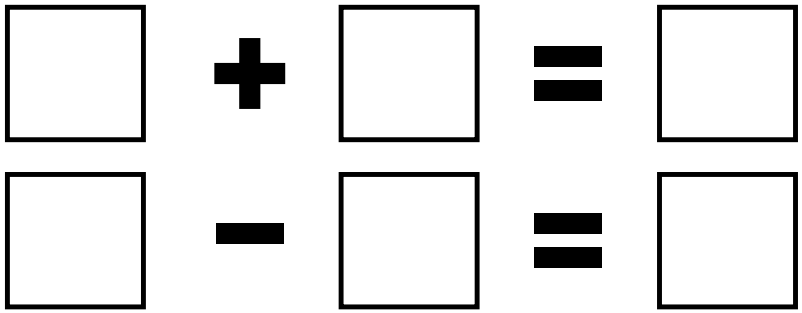
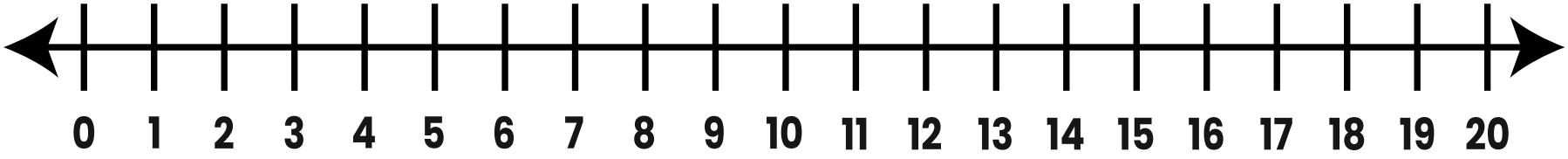
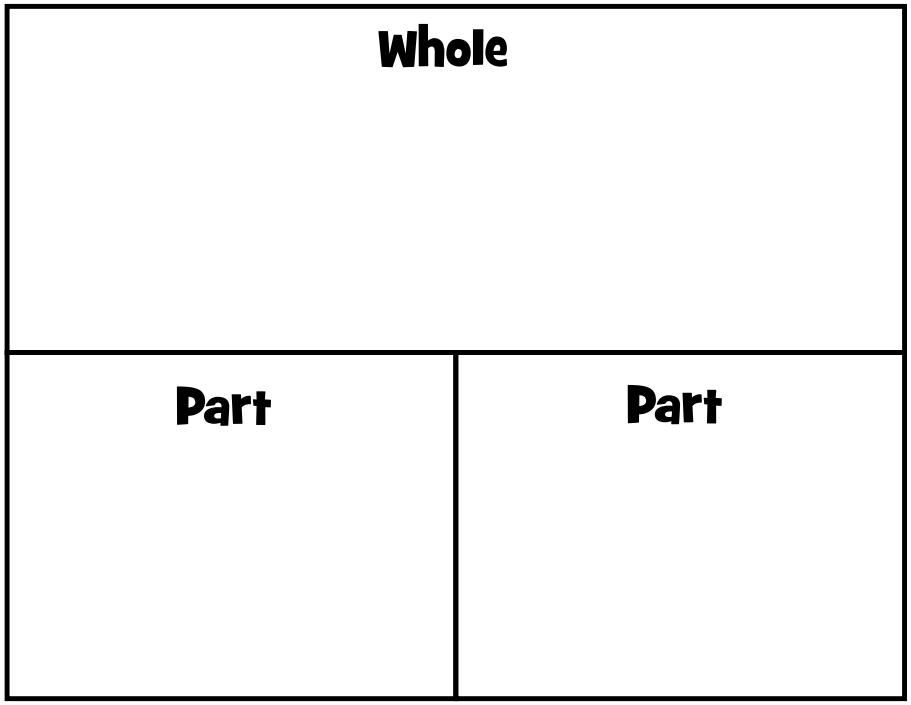
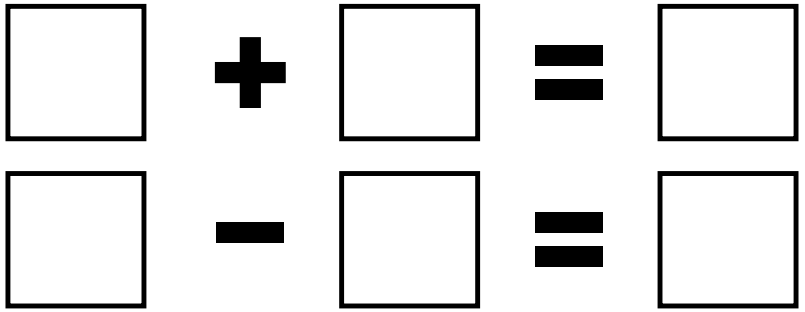






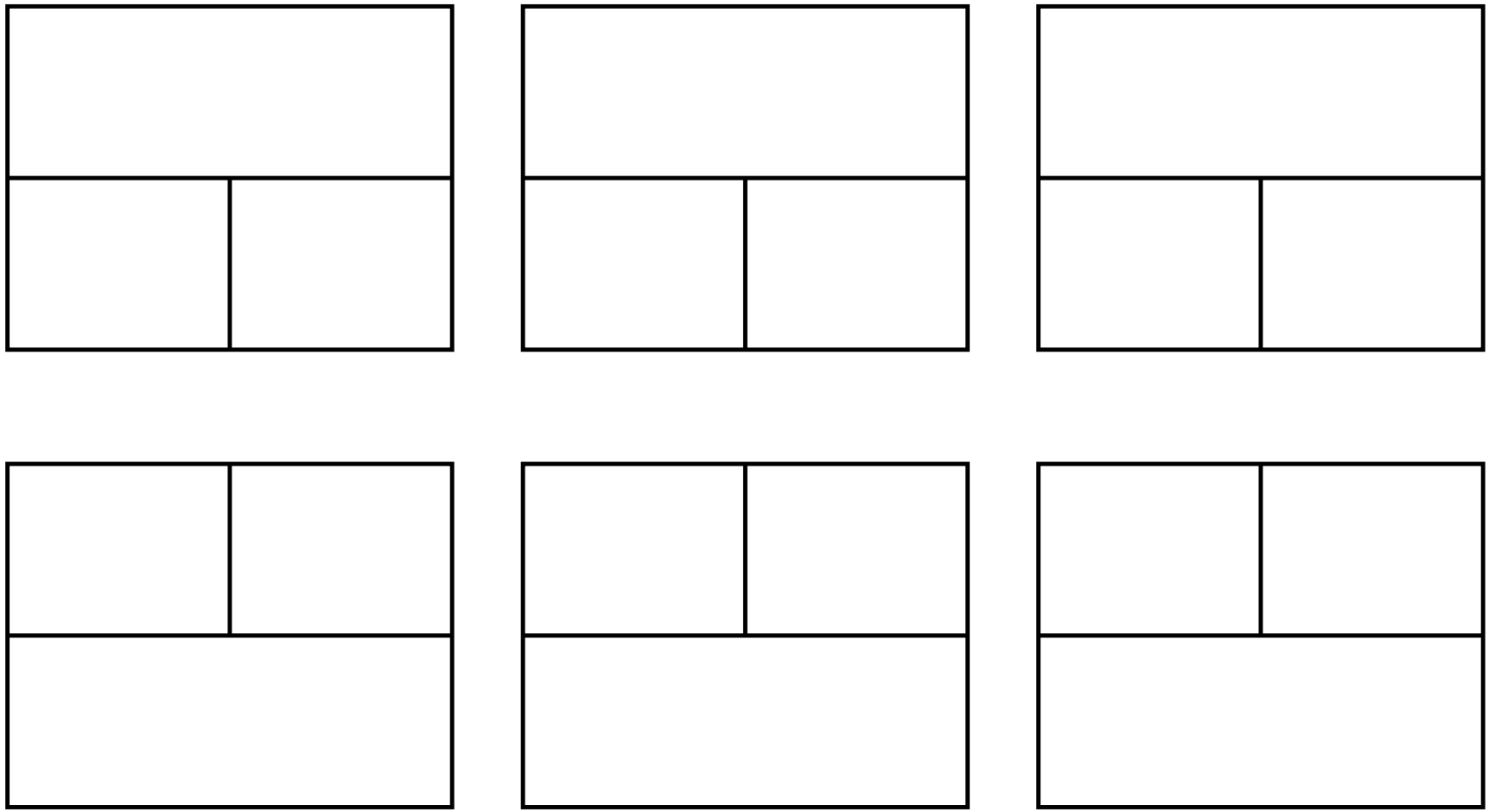
Addition Mat





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

Part-Part-Whole Mats



Player 2

1	2	3	4	5	6	7	8	9	10	11	12

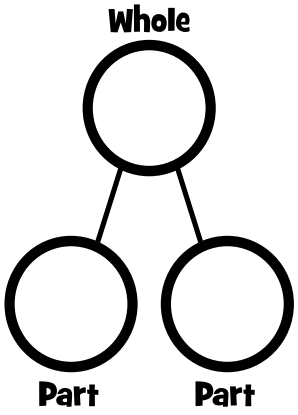
Shut the Box

Player roll the dice and the player with the highest sum starts. Players take turns rolling the dice and adding or subtracting to cover up a number on their board. Whoever covers up all their numbers wins. If you cannot go you must skip a turn.

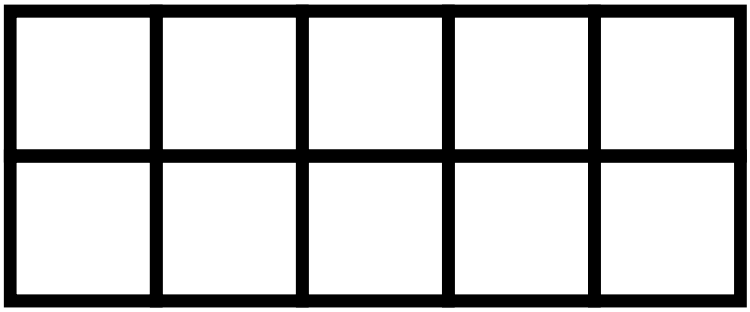
1	2	3	4	5	6	7	8	9	10	11	12

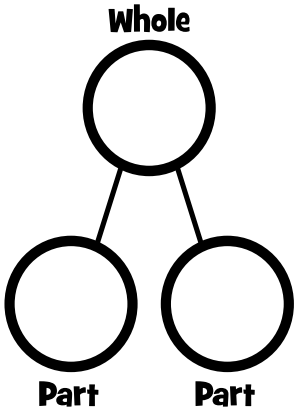
Player 1

Number Bonds

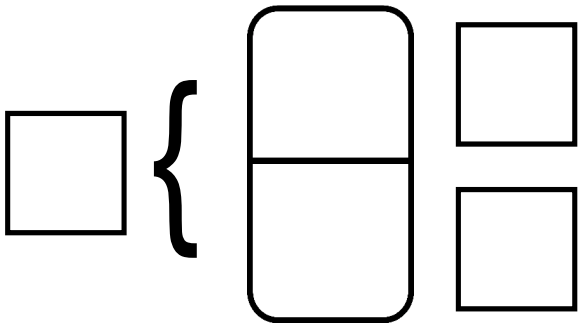


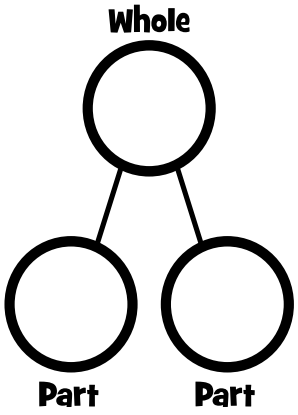
Ten Frame



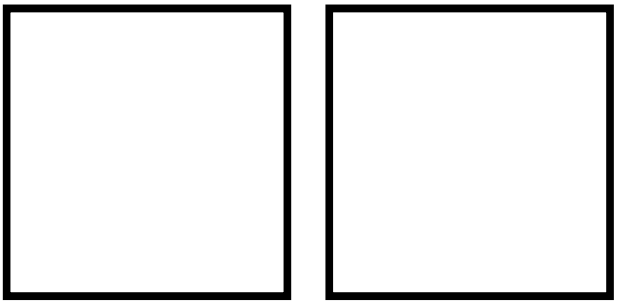


Domino





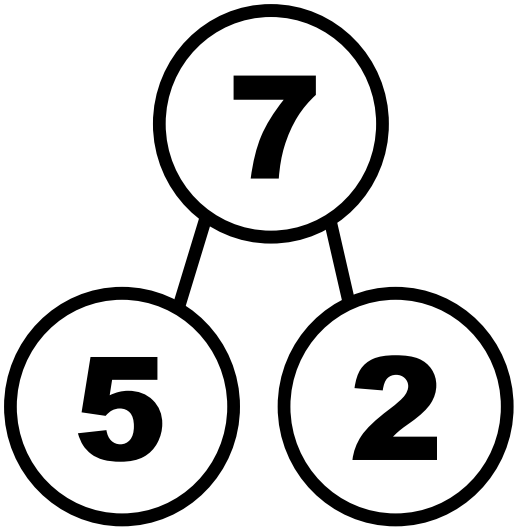
Fingures



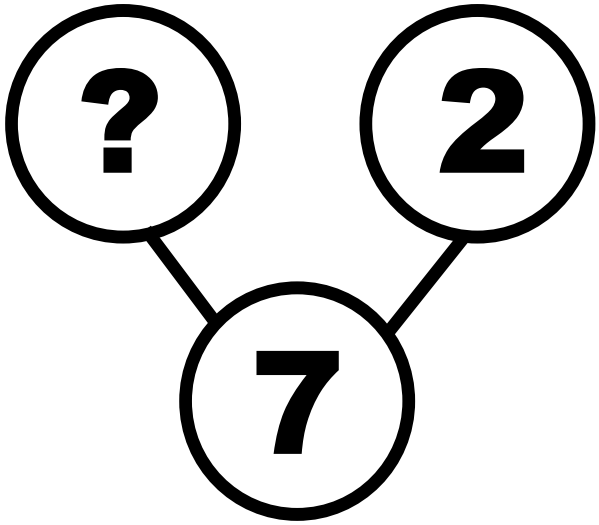
Equations

____ = ____ + ____ ____ ____ = ____

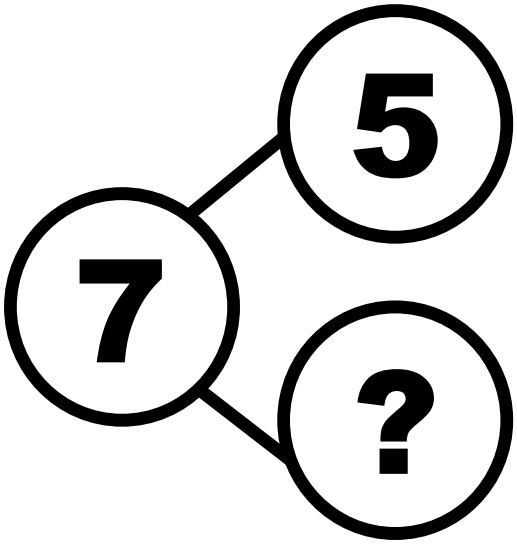
Missing Number
Number Bonds



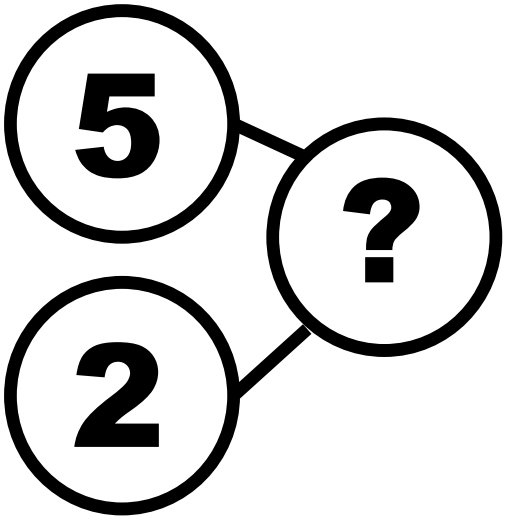
7 = 5 + 2



☐ + 2 = 7



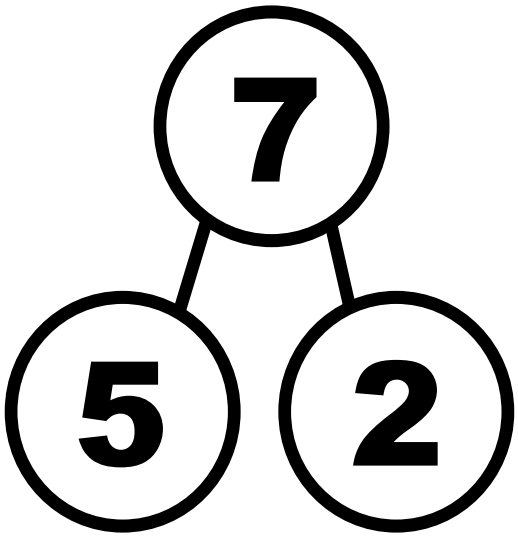
7 = 5 + ☐



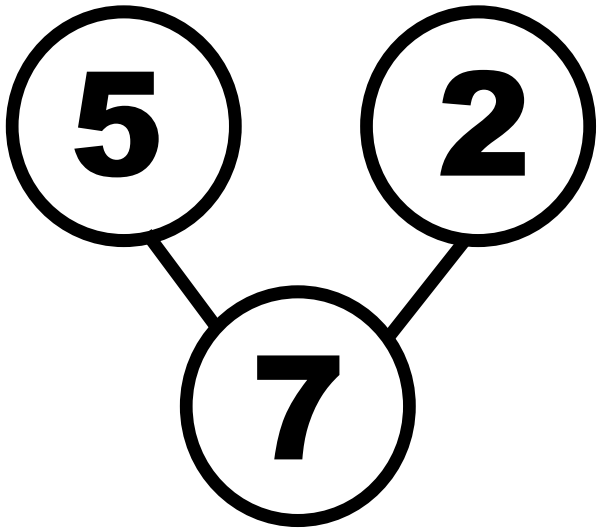
5 + 2 = ☐

Number Bonds show us the parts and
the whole of a number.
They are a type of diagram.

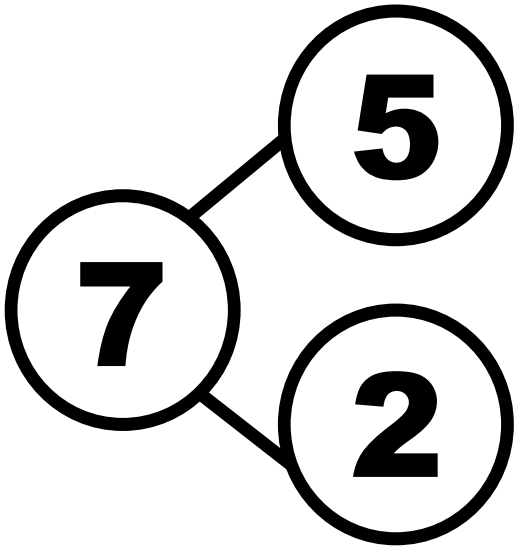
Number Bonds



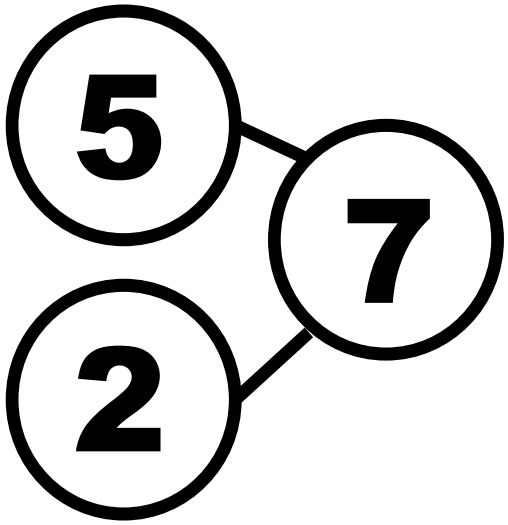
7=5+2



5+2=7



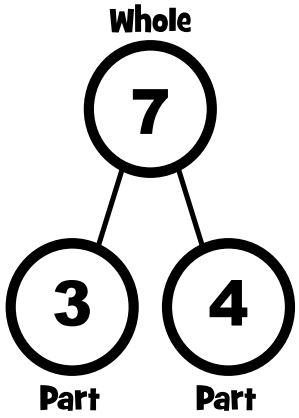
7=5+2



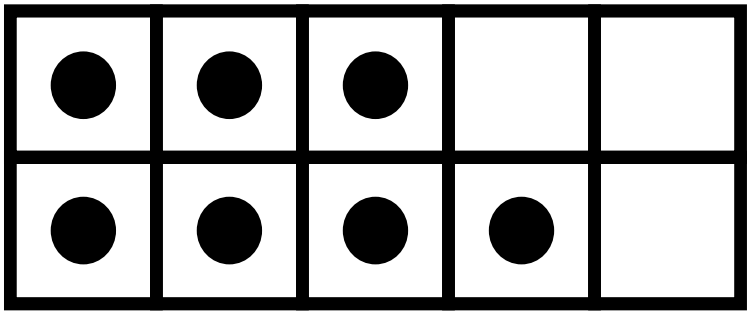
5+2=7

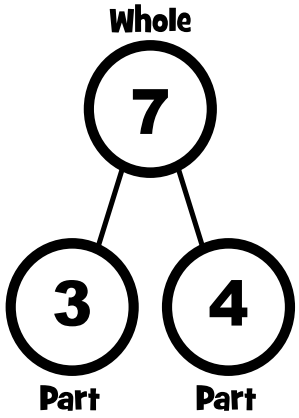
Number Bonds show us the parts and
the whole of a number.
They are a type of diagram.

Number Bonds

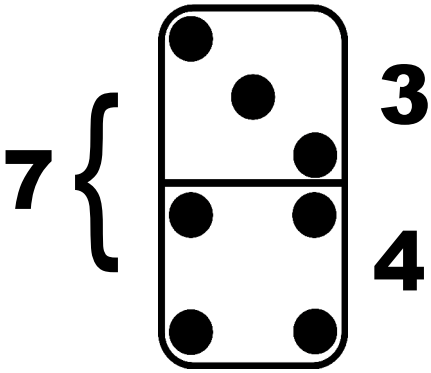


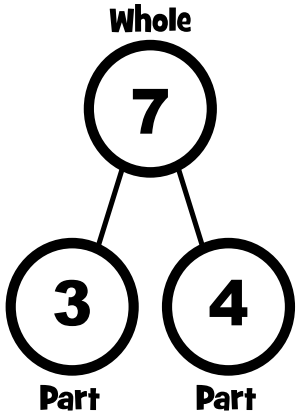
Ten Frame



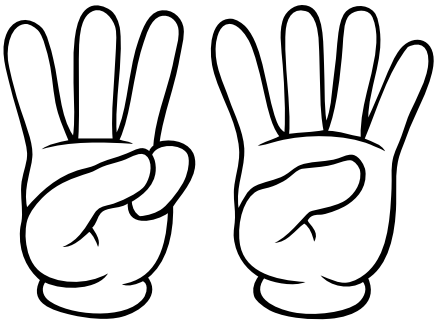


Domino





Fingers

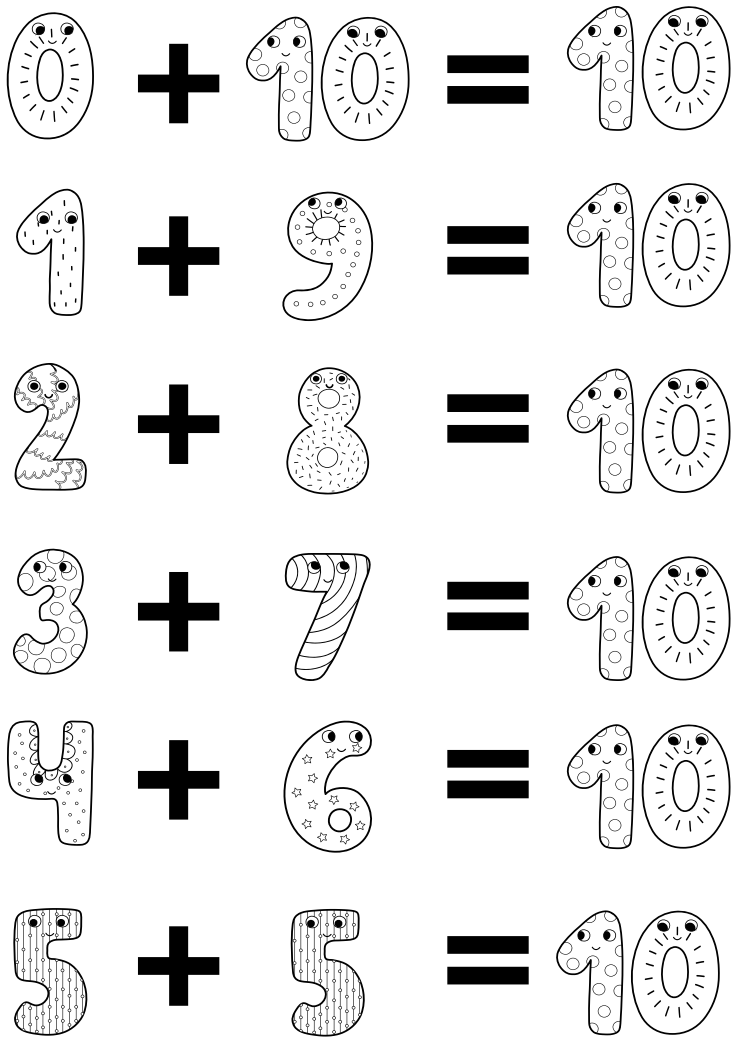


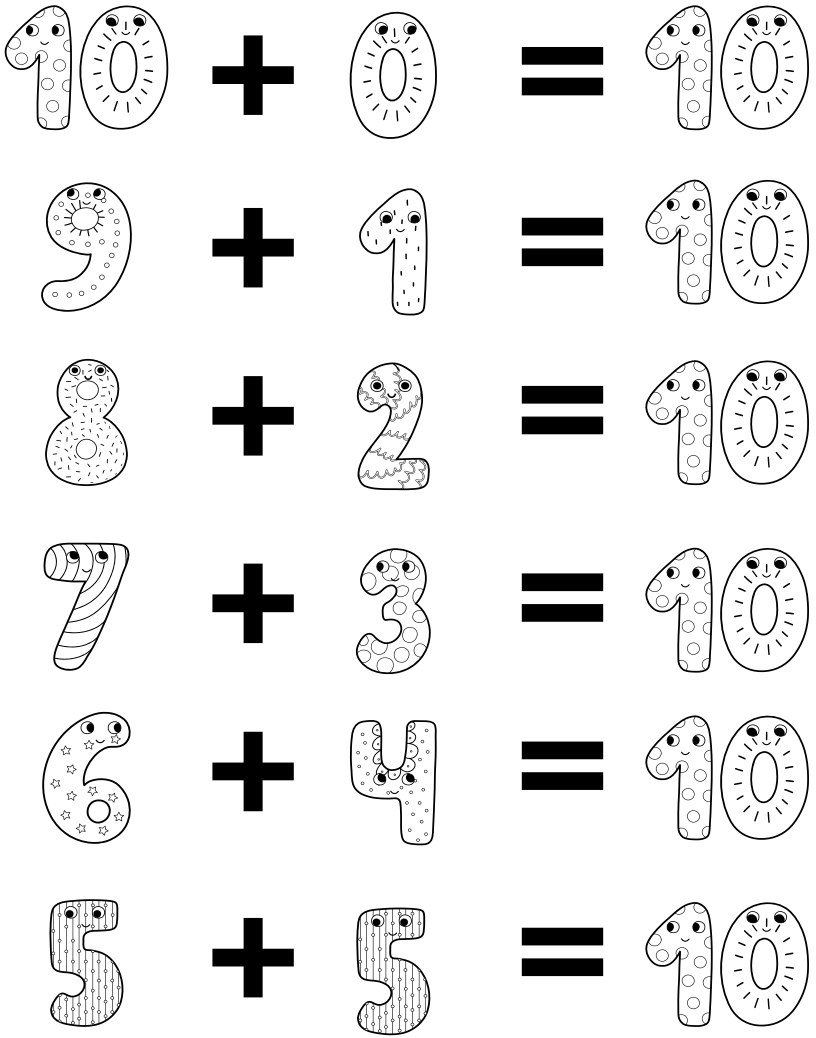
Equations

7 = 4 + 3

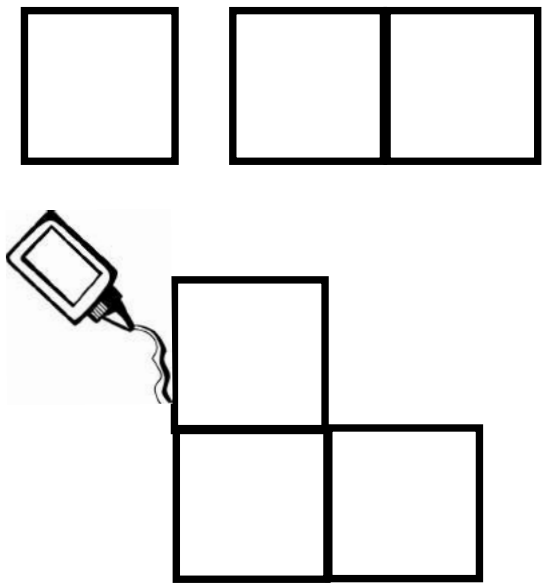
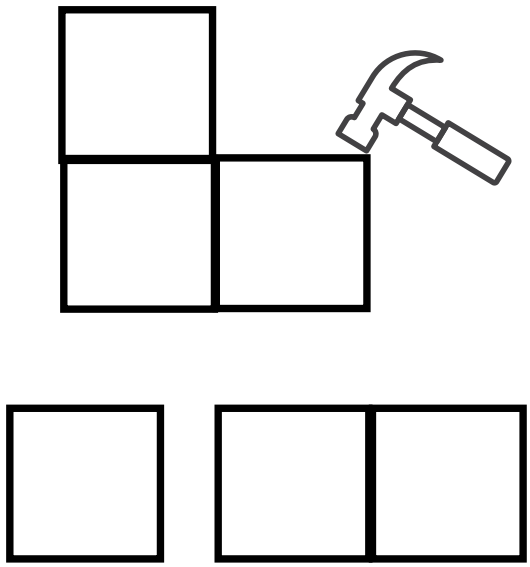
3 + 4 = 7

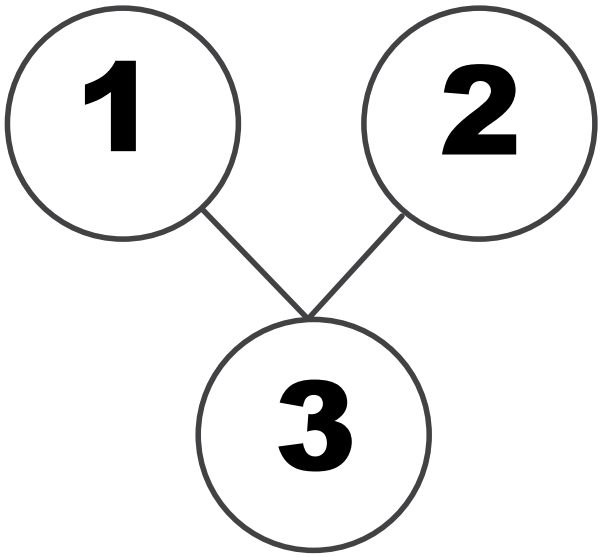
FRIENDS OF 10

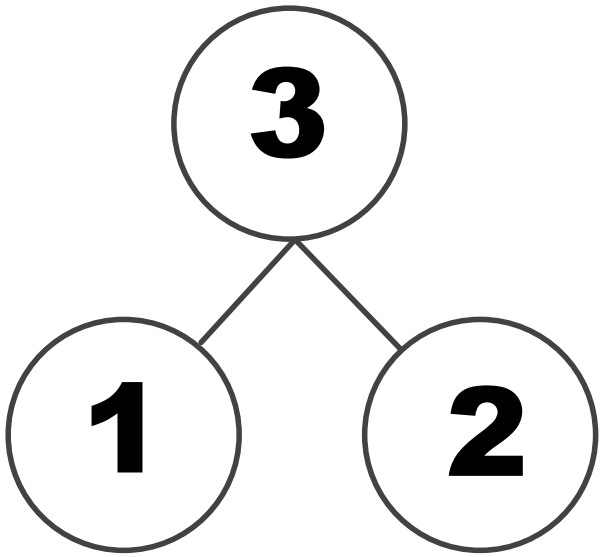




Composing and Decomposing

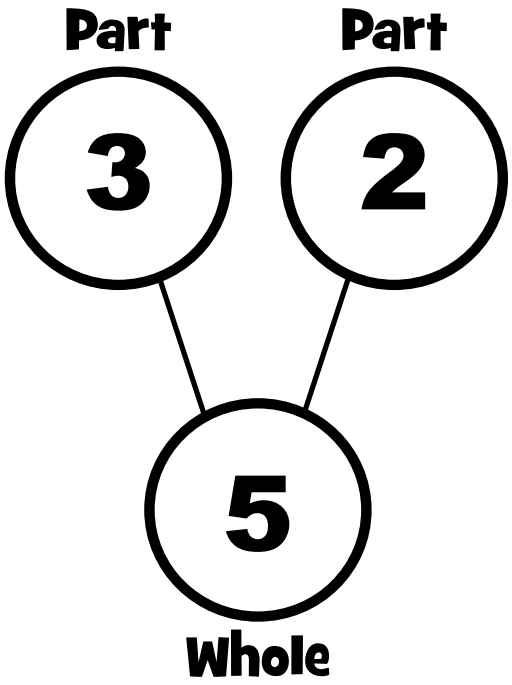
COMPOSE	DECOMPOSE
	





Composing Numbers

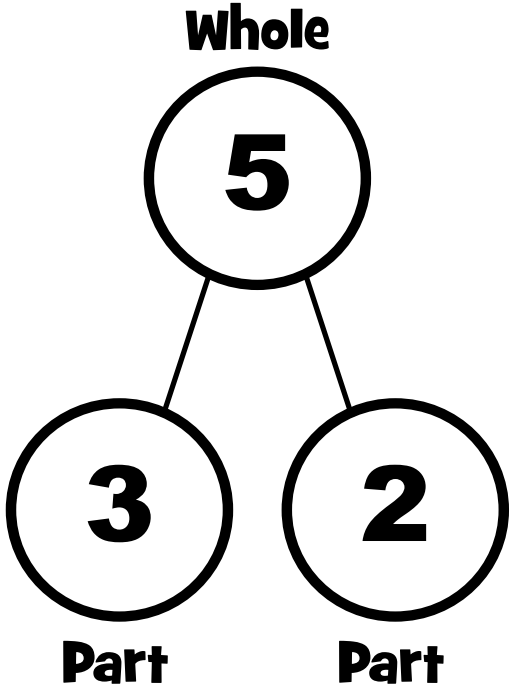
Putting parts together to make a whole.



3 + 2 = 5

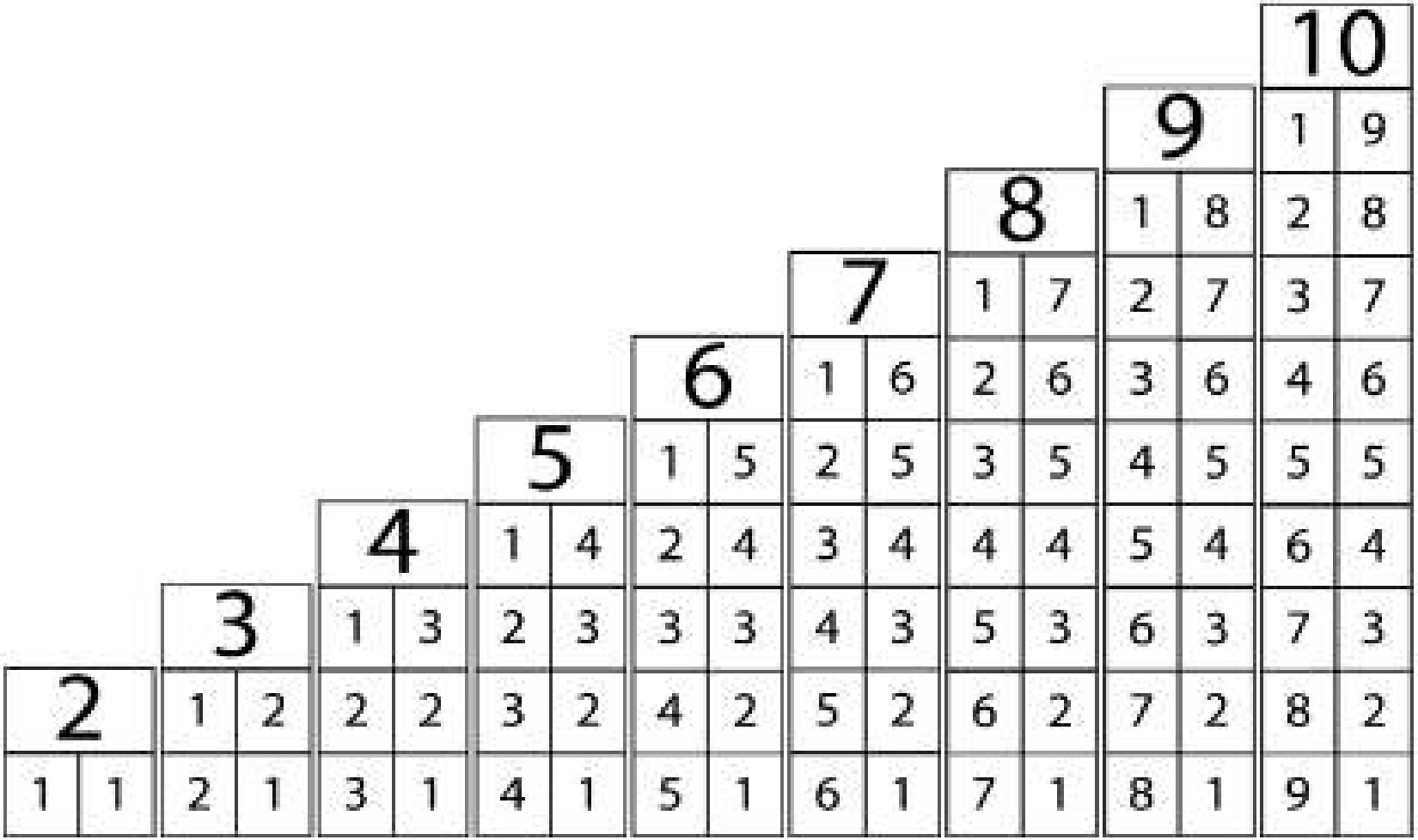
Decomposing Numbers

Taking the whole and making it into parts.

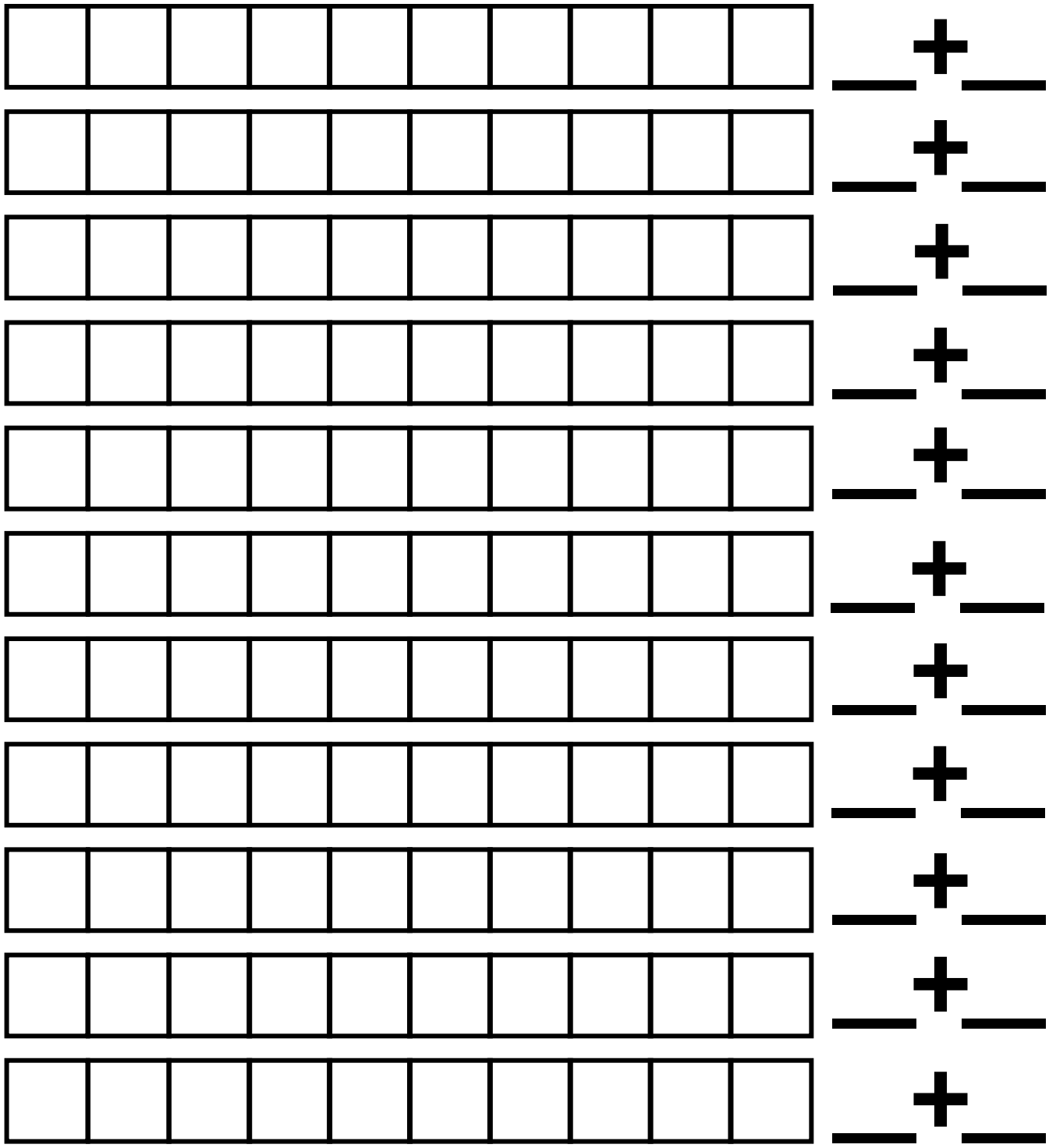


5 = 3 + 2

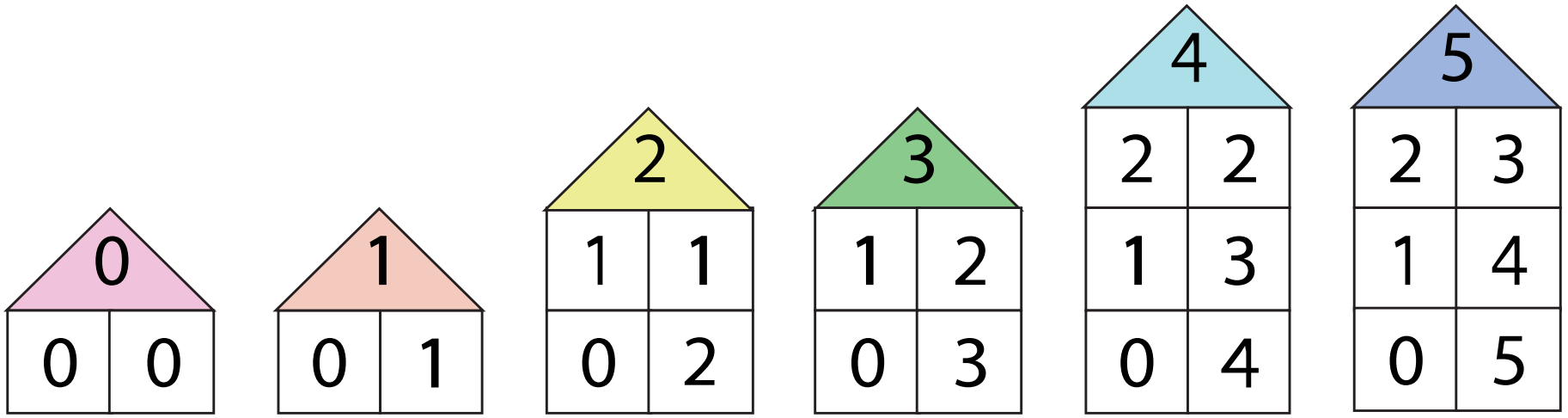
NUMBER STAIRCASE



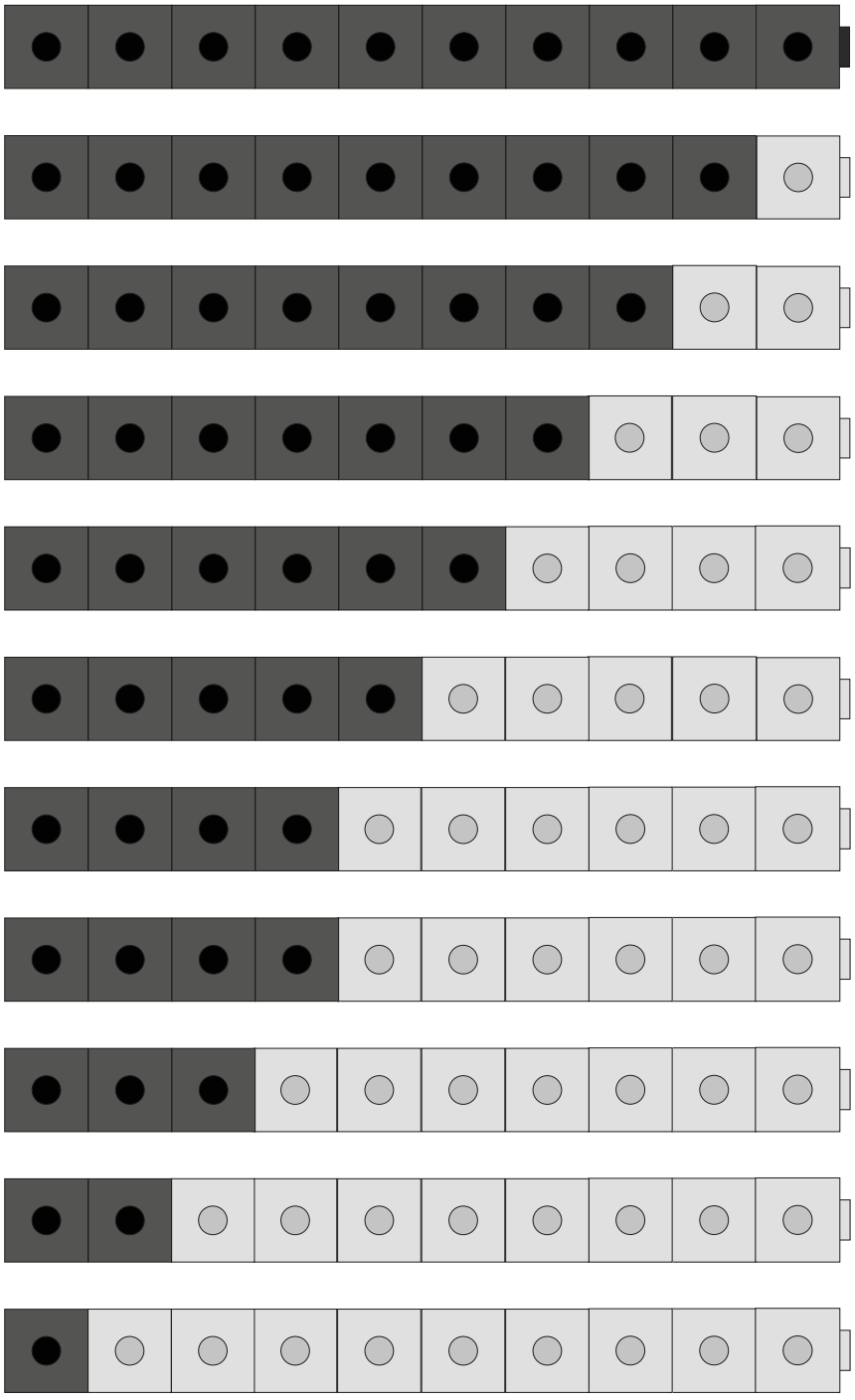
Coloring 10



NUMBER HOUSES



MAKE 10



10+0+10=

9+1+10=

8+2+10=

7+3+10=

6+4+10=

5+5+10=

4+6+10=

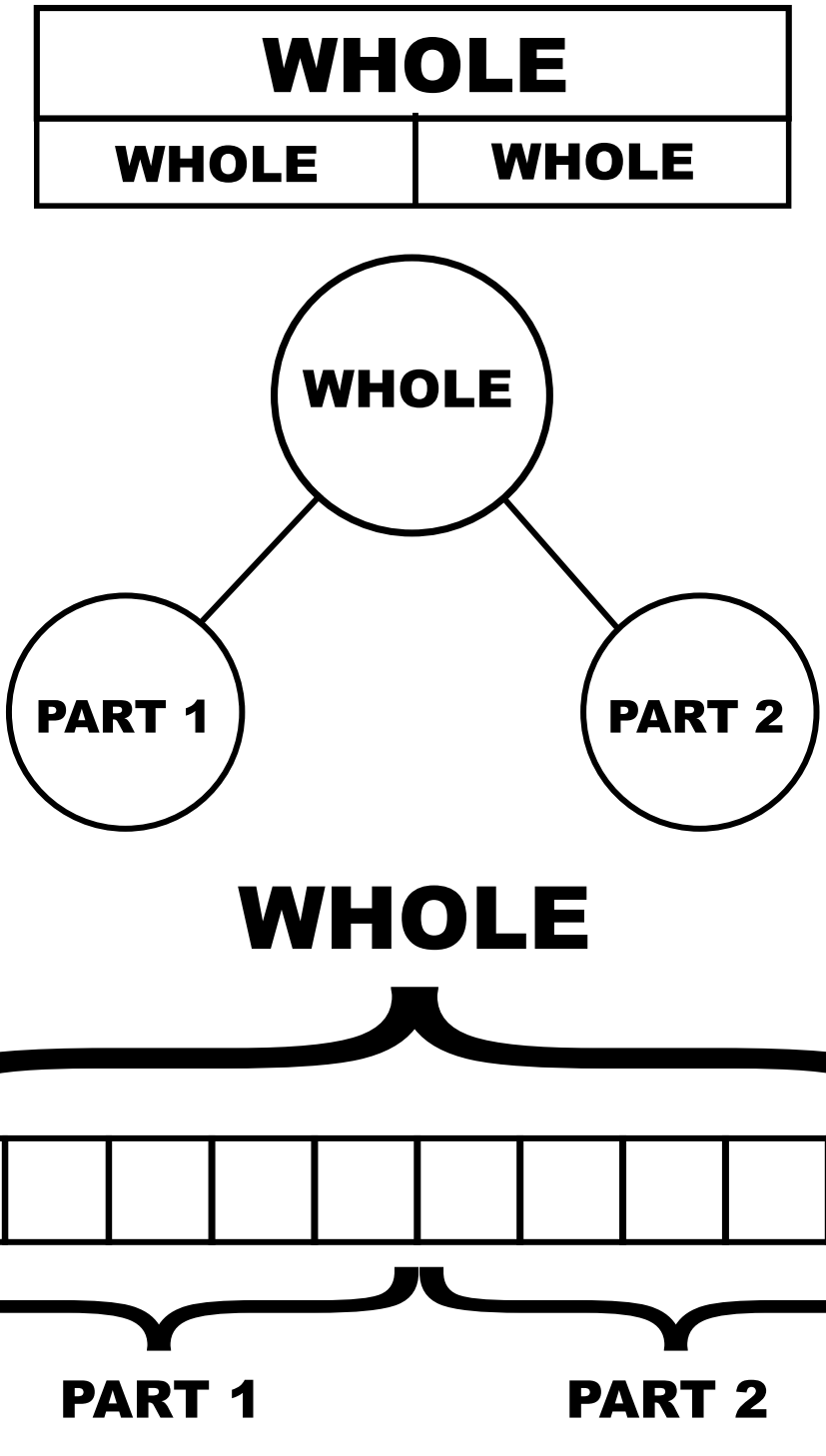
3+7+10=

2+8+10=

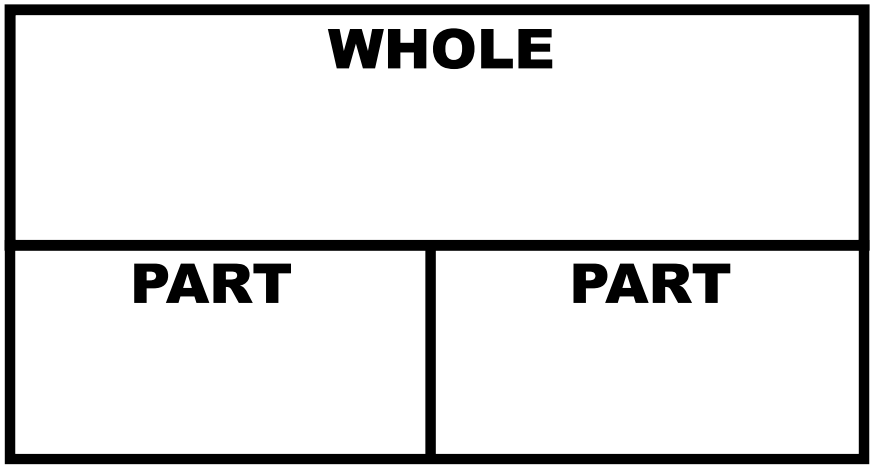
1+9+10=

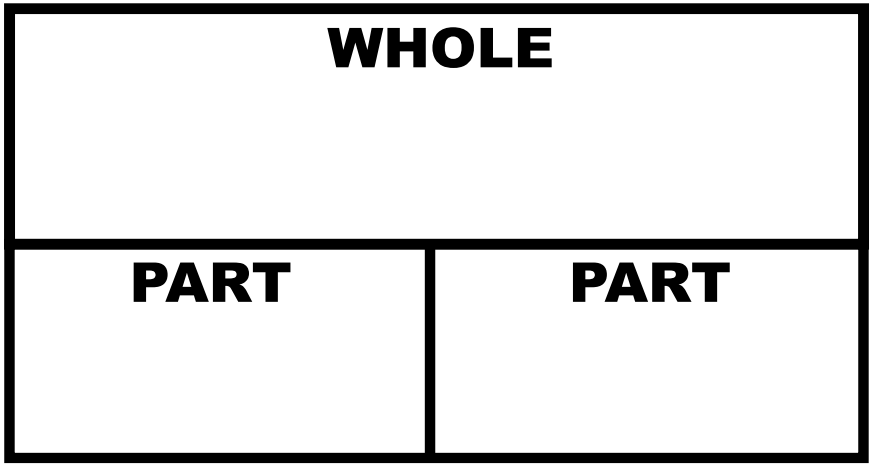
0+10+10=

PART PART WHOLE



PART PART WHOLE MATS

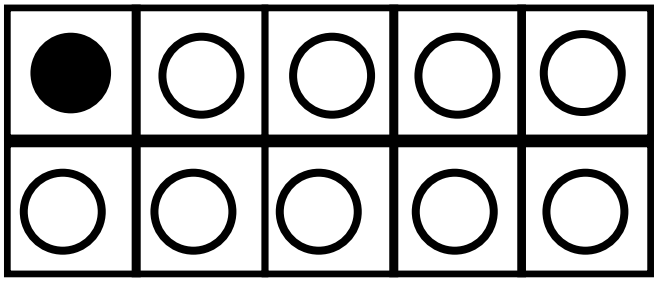




_____ ◯ _____ = _____

ADDING WITHIN 10 (10 FRAMES)

1 + 9



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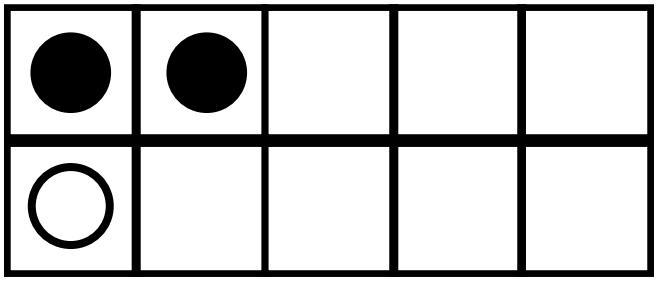
2 + 1



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3

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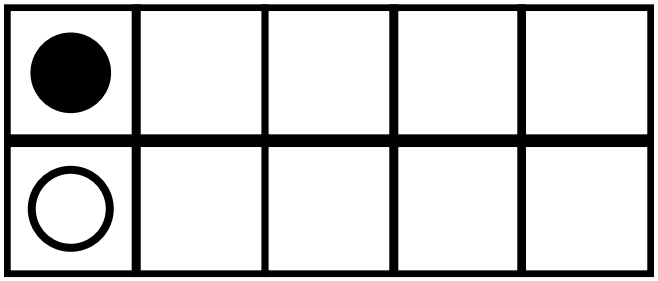
ADDING WITHIN 10 (10 FRAMES)

1 + 1



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2

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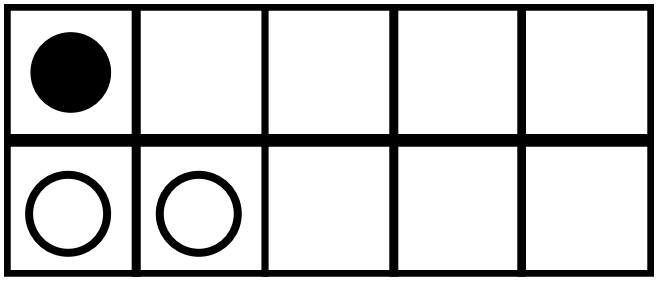
1 + 2



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3

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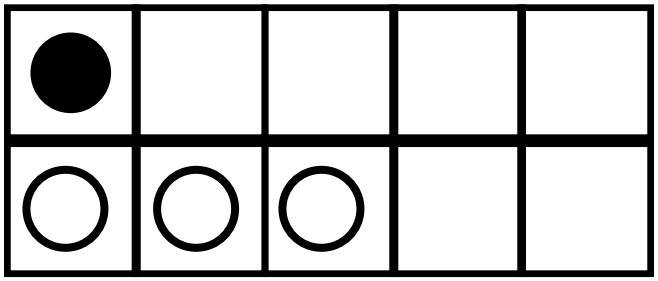
ADDING WITHIN 10 (10 FRAMES)

1 + 3



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4

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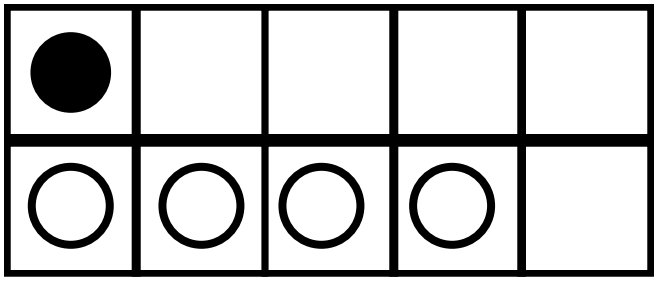
1 + 4



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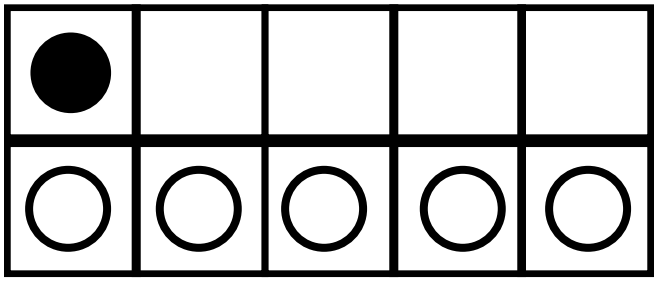
ADDING WITHIN 10 (10 FRAMES)

1 + 5



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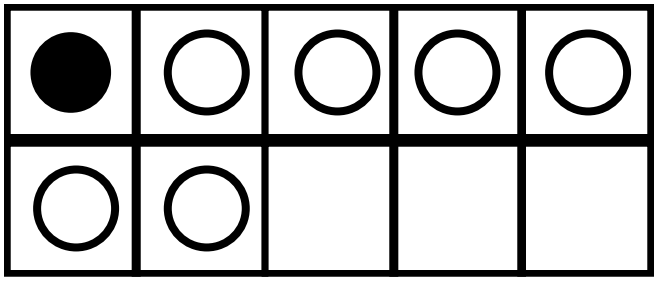
1 + 6



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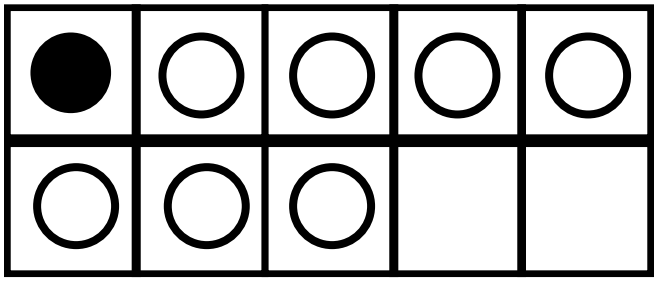
ADDING WITHIN 10 (10 FRAMES)

1 + 7



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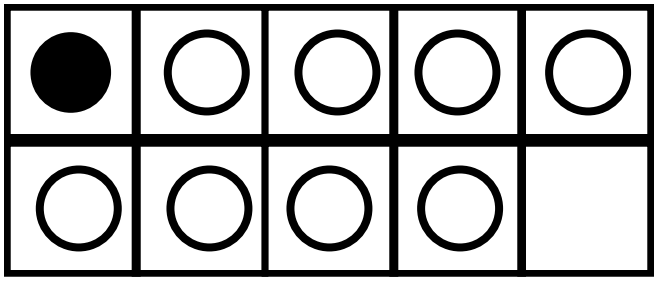
1 + 8



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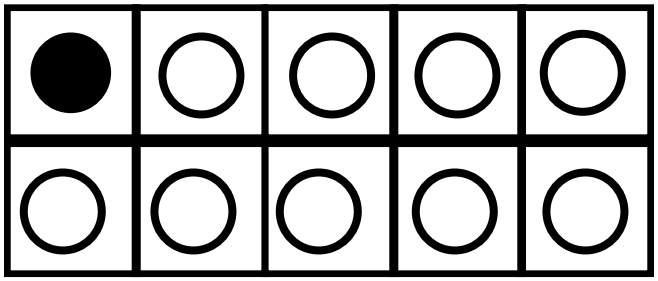
ADDING WITHIN 10 (10 FRAMES)

1 + 9



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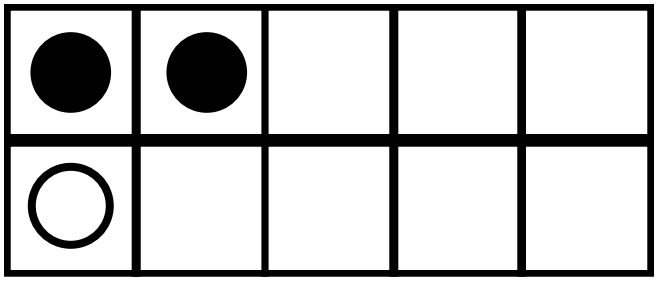
2 + 1



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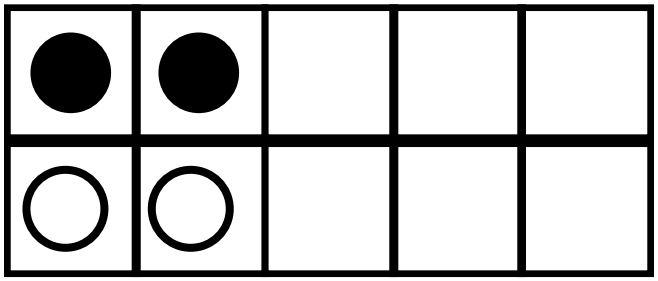
ADDING WITHIN 10 (10 FRAMES)

2 + 2



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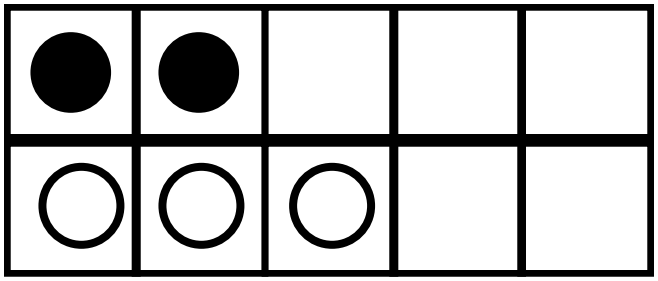
2 + 3



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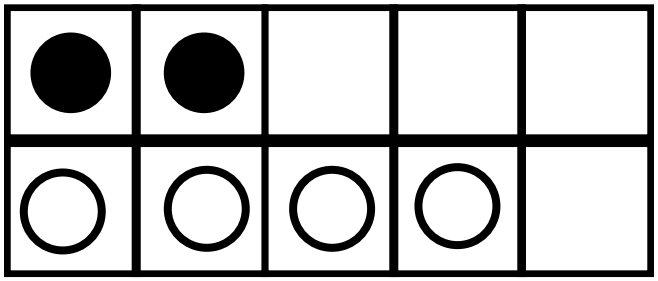
ADDING WITHIN 10 (10 FRAMES)

2 + 4



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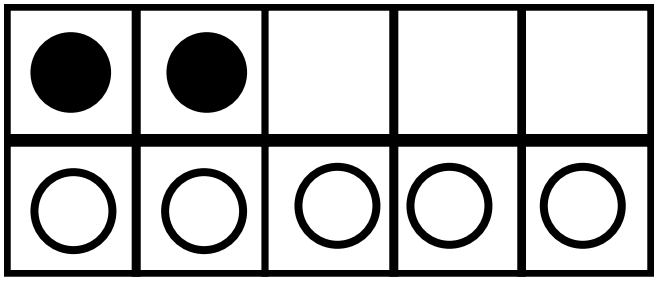
2 + 5



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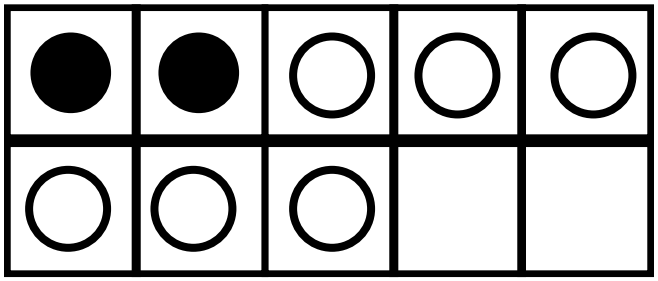
ADDING WITHIN 10 (10 FRAMES)

2 + 6



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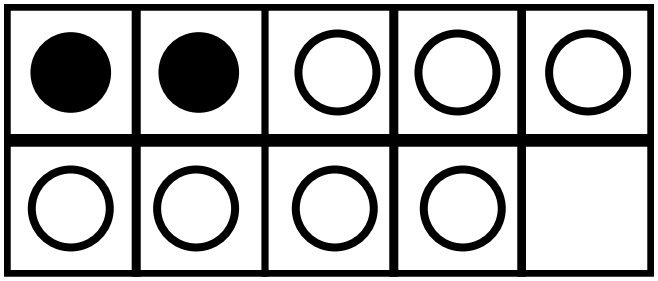
2 + 7



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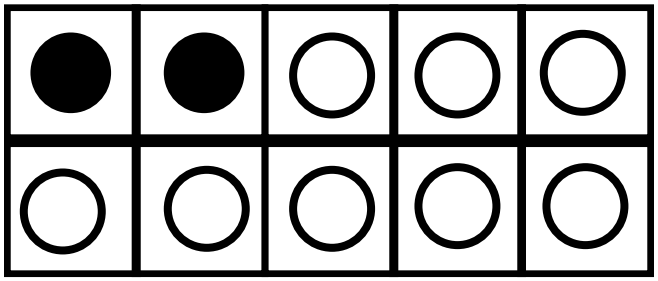
ADDING WITHIN 10 (10 FRAMES)

2 + 8



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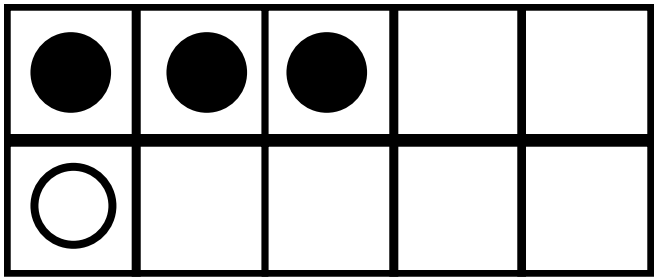
3 + 1



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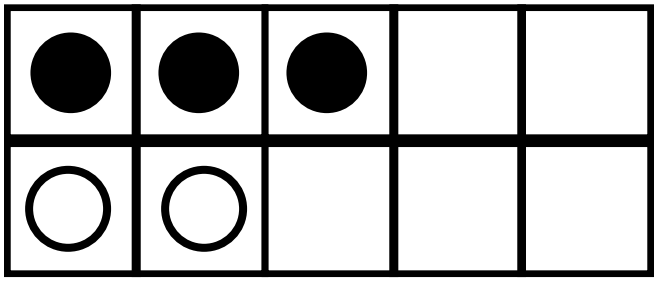
ADDING WITHIN 10 (10 FRAMES)

3 + 2



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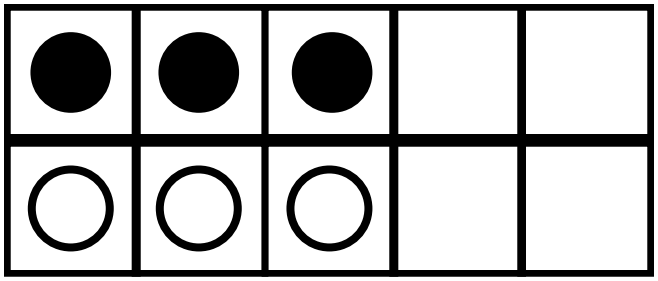
3 + 3



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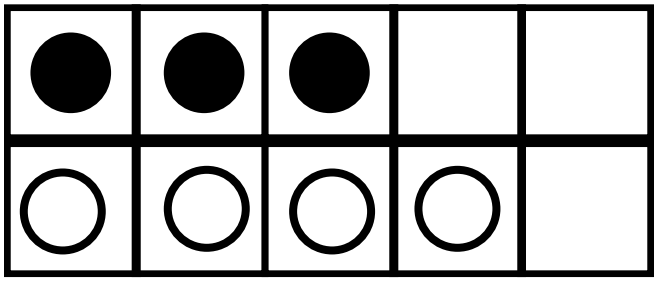
ADDING WITHIN 10 (10 FRAMES)

3 + 4



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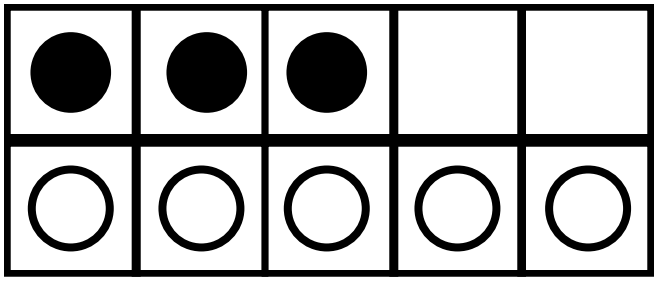
3 + 5



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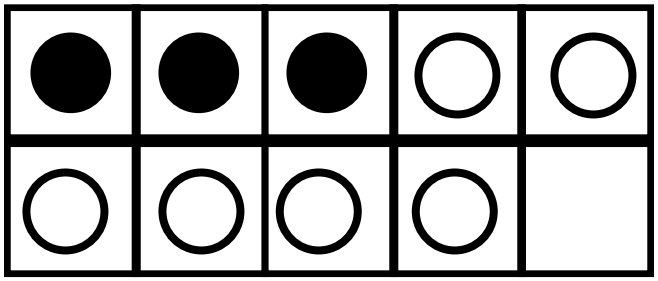
ADDING WITHIN 10 (10 FRAMES)

3 + 6



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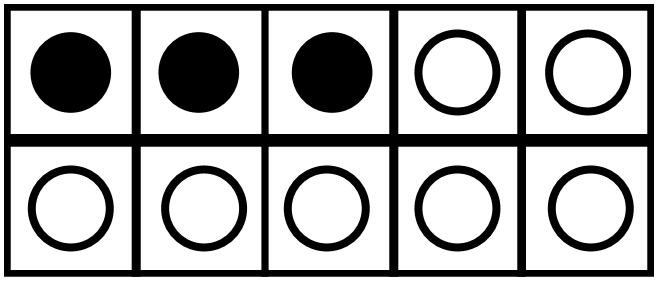
3 + 7



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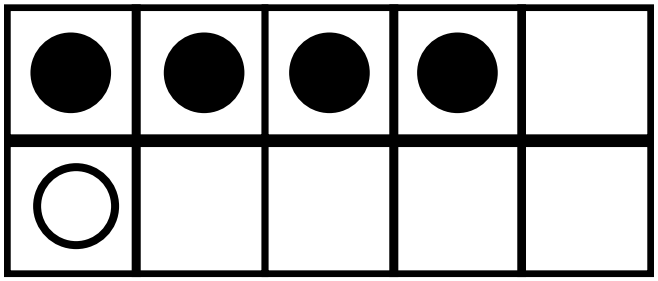
ADDING WITHIN 10 (10 FRAMES)

4 + 1



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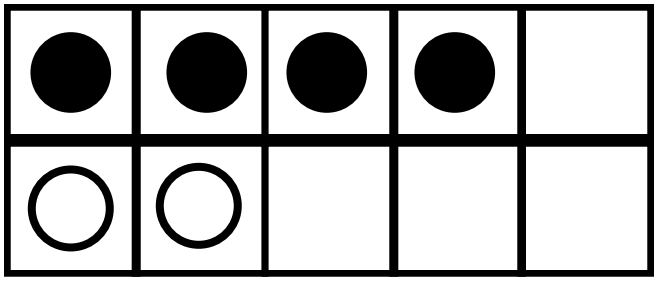
4 + 2



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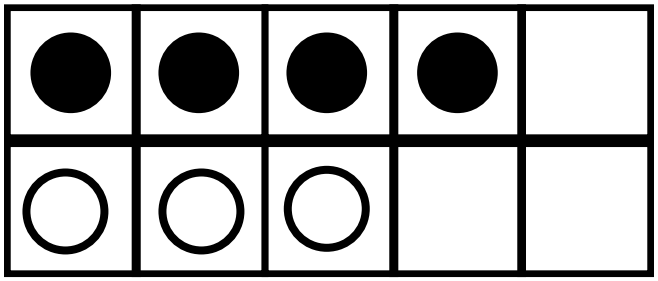
ADDING WITHIN 10 (10 FRAMES)

4 + 3



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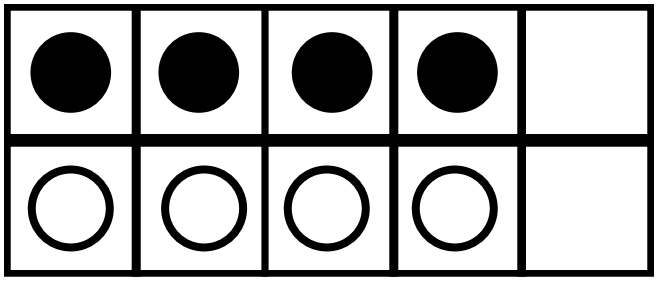
4 + 4



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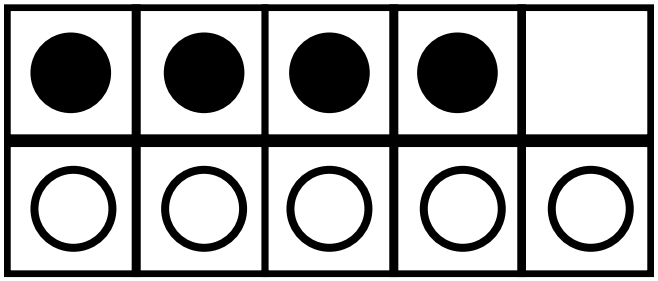
ADDING WITHIN 10 (10 FRAMES)

4 + 5



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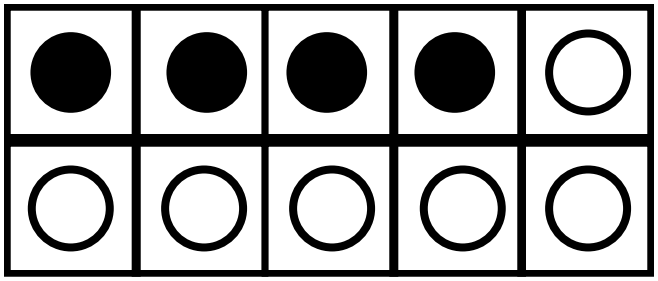
4 + 6



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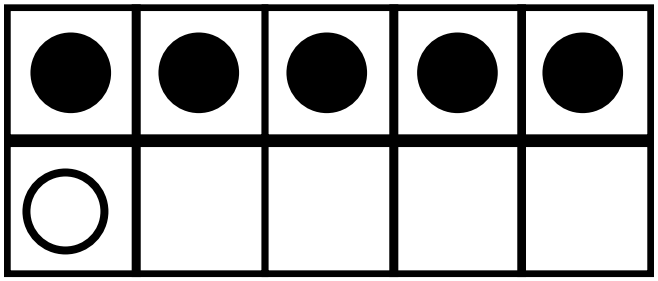
ADDING WITHIN 10 (10 FRAMES)

5 + 1



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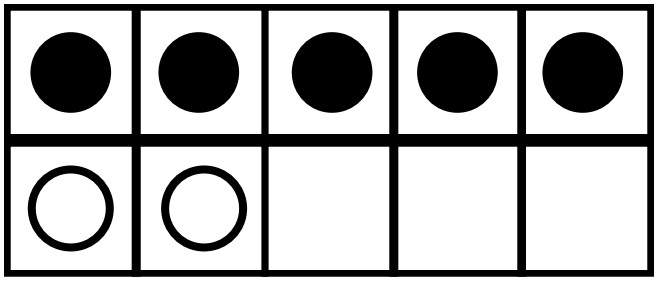
5 + 2



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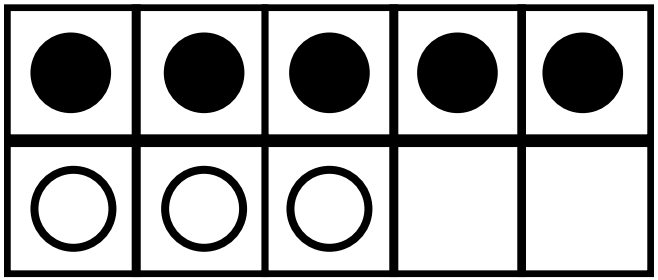
ADDING WITHIN 10 (10 FRAMES)

5 + 3



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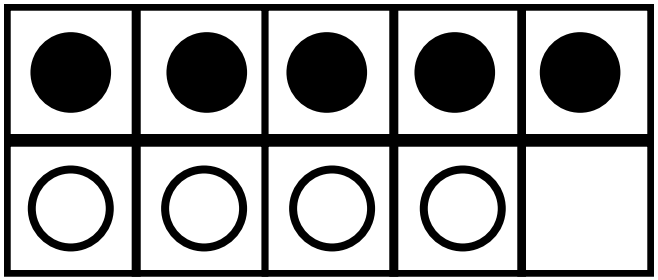
5 + 4



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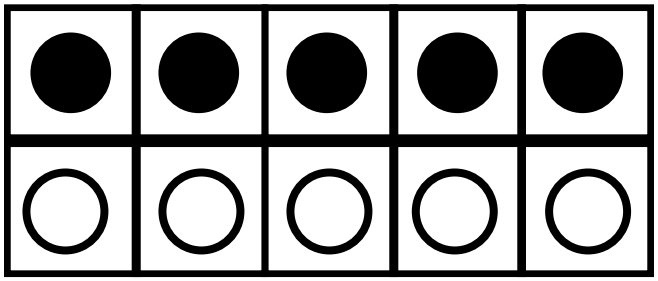
ADDING WITHIN 10 (10 FRAMES)

5 + 5



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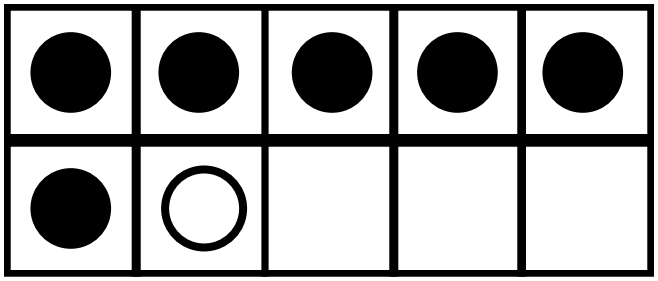
6 + 1



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7

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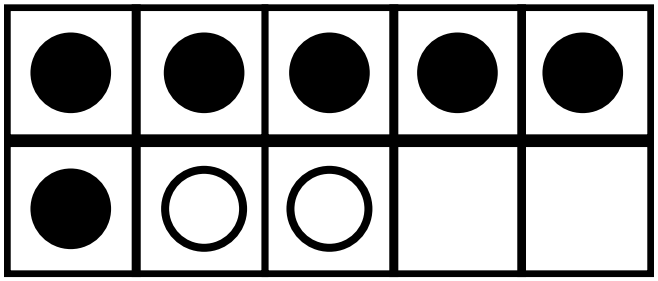
ADDING WITHIN 10 (10 FRAMES)

6 + 2



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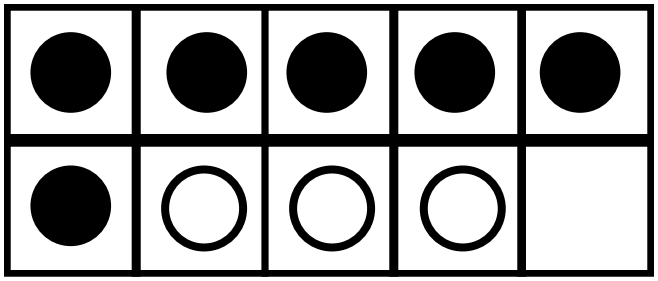
6 + 3



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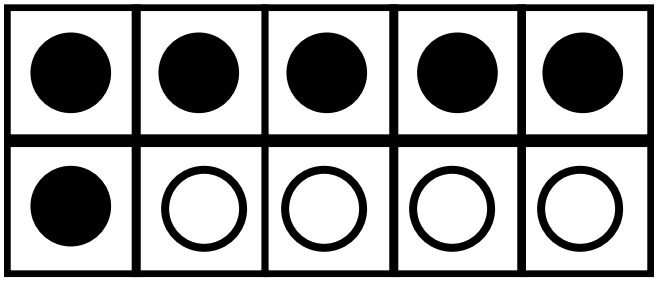
ADDING WITHIN 10 (10 FRAMES)

6 + 4



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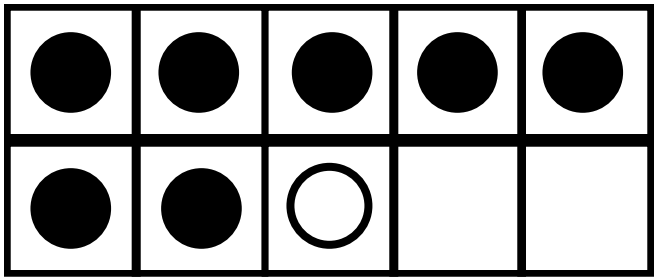
7 + 1



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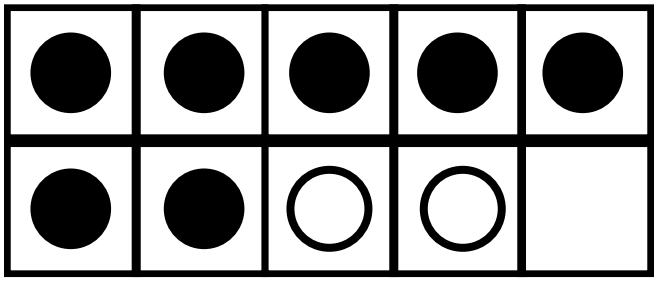
ADDING WITHIN 10 (10 FRAMES)

7 + 2



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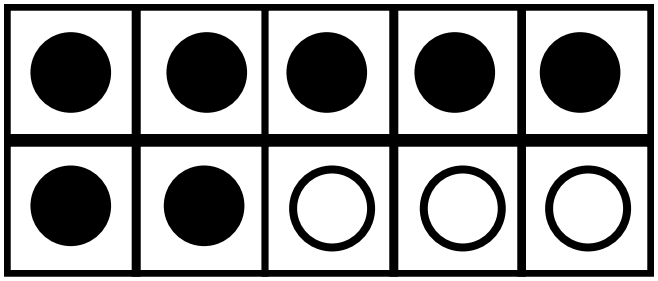
7 + 3



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10

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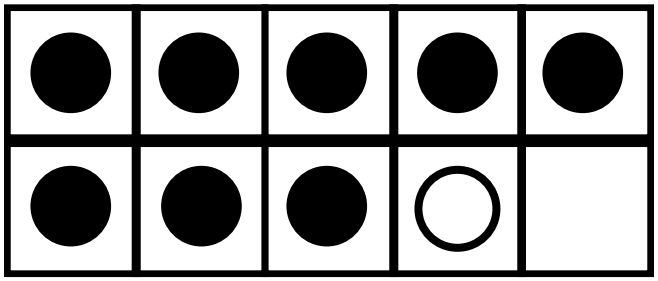
ADDING WITHIN 10 (10 FRAMES)

8 + 1



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9

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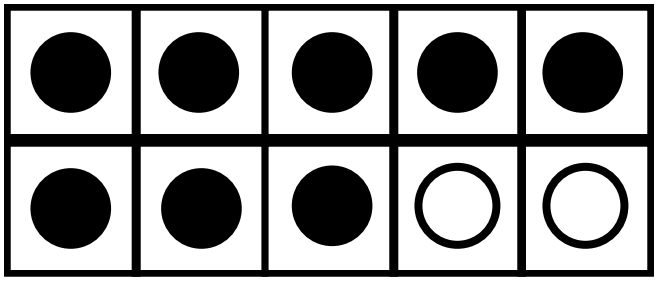
8 + 2



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10

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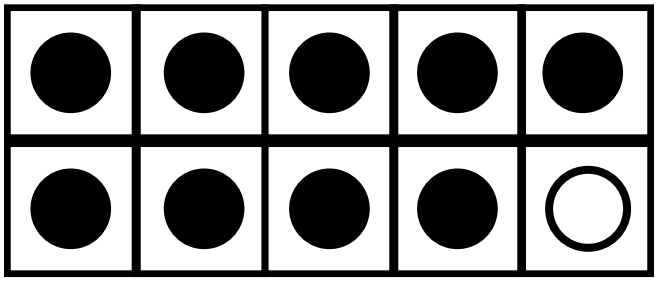
ADDING WITHIN 10 (10 FRAMES)

9 + 1



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10

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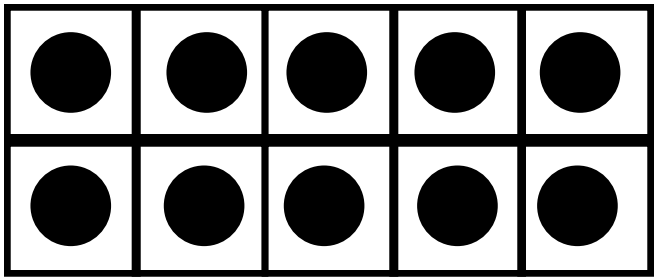
10 + 0



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10

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MISSING NUMBERS TO 10

$4 + ? = 8$

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4

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$4 + ? = 7$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

$8 + ? = 10$

www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$2 + ? = 6$

www.mathfactfluencyplayground.com

4

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$1 + ? = 4$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$2 + ? = 5$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$7 + ? = 9$

www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$6 + ? = 10$

www.mathfactfluencyplayground.com

4

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

$2 + ? = 8$

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$5 + ? = 10$

www.mathfactfluencyplayground.com

5

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

$3 + ? = 6$

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$5 + ? = 7$

www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$2 + ? = 4$

www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$4 + ? = 5$

www.mathfactfluencyplayground.com

1

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Cut, fold and glue back to back

MISSING NUMBERS TO 10

$3 + ? = 4$

www.mathfactfluencyplayground.com

1

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$4 + ? = 6$

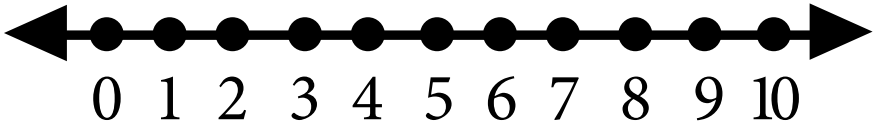
www.mathfactfluencyplayground.com

2

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

$3 + ? = 5$



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2

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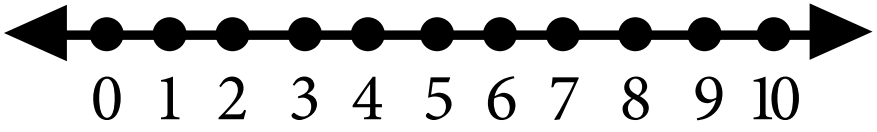
*Look for doubles and make ten facts first

$2 + ? = 9$



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7

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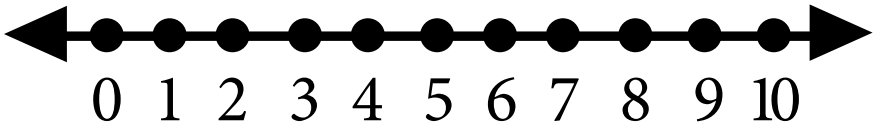
Cut, fold and glue back to back

MISSING NUMBERS TO 10

$5 + ? = 8$



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3

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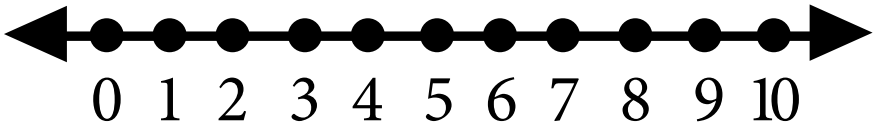
*Look for doubles and make ten facts first

$3 + ? = 9$



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6

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MISSING NUMBERS TO 10

$2 + ? = 10$

www.mathfactfluencyplayground.com

8

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$4 + ? = 10$

www.mathfactfluencyplayground.com

6

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$3 + ? = 7$

www.mathfactfluencyplayground.com

4

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$1 + ? = 5$

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4

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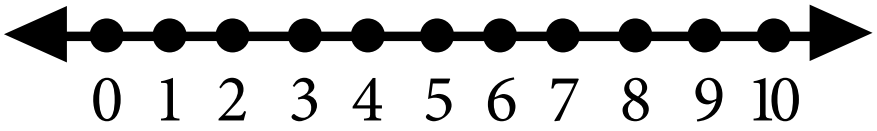
MISSING NUMBERS TO 10

$6 + ? = 9$



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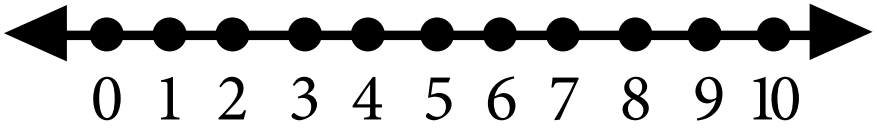
3

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$3 + ? = 8$



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5

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Cut, fold and glue back to back

MISSING NUMBERS TO 10

1 + ? = 1

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0

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

7 + ? = 10

www.mathfactfluencyplayground.com

3

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

$5 + ? = 5$

www.mathfactfluencyplayground.com

0

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$1 + ? = 2$

www.mathfactfluencyplayground.com

1

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$6 + ? = 8$

0 1 2 3 4 5 6 7 8 9 10

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2

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$0 + ? = 5$

0 1 2 3 4 5 6 7 8 9 10

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5

www.mathfactfluencyplayground.com

MISSING NUMBERS TO 10

0 + ? = 0

www.mathfactfluencyplayground.com

0

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

1 + ? = 3

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2

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$0 + ? = 1$

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1

www.mathfactfluencyplayground.com

*Look for doubles and make ten facts first

$2 + ? = 3$

www.mathfactfluencyplayground.com

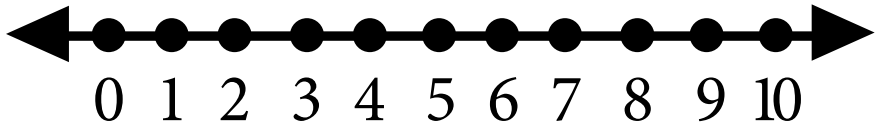
1

www.mathfactfluencyplayground.com

Cut, fold and glue back to back

MISSING NUMBERS TO 10

$2 + ? = 7$



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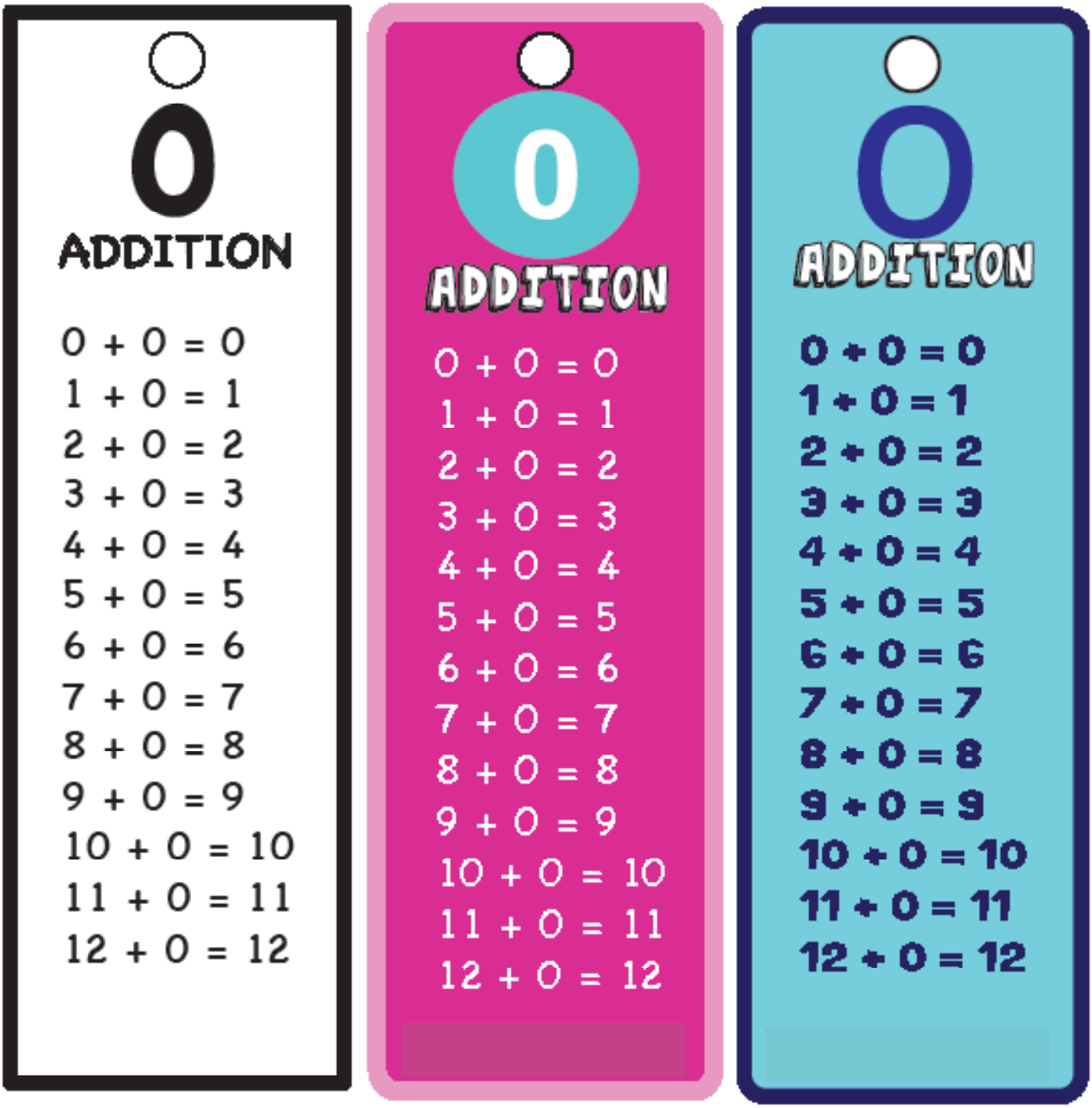
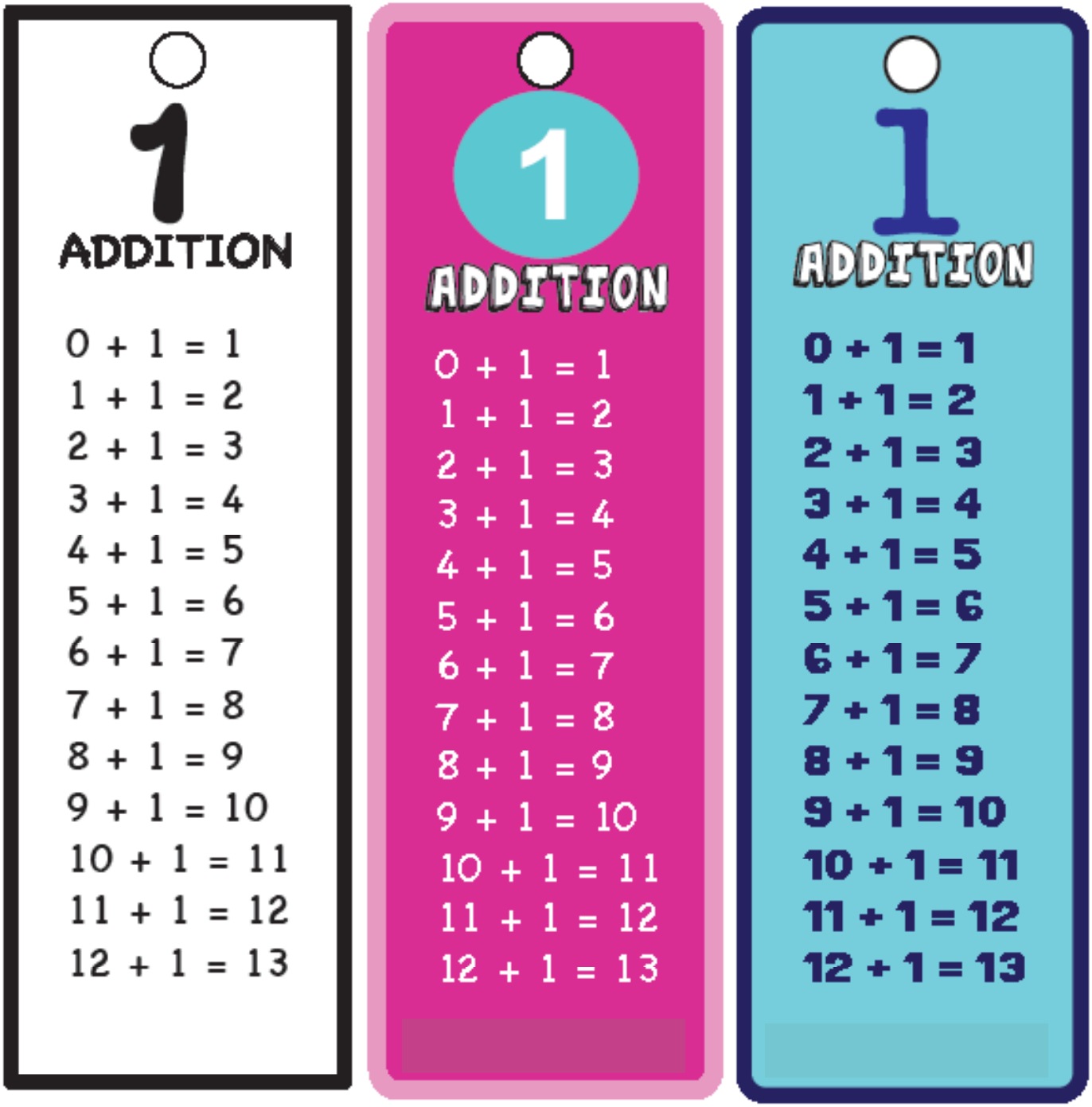
NUMBERS 0 TO 10

0	
1	6
2	7
3	8
4	9
5	10

BOOKMARKS


0
ADDITION
0 + 0 = 0
1 + 0 = 1
2 + 0 = 2
3 + 0 = 3
4 + 0 = 4
5 + 0 = 5
6 + 0 = 6
7 + 0 = 7
8 + 0 = 8
9 + 0 = 9
10 + 0 = 10
11 + 0 = 11
12 + 0 = 12
0
ADDITION
0 + 0 = 0
1 + 0 = 1
2 + 0 = 2
3 + 0 = 3
4 + 0 = 4
5 + 0 = 5
6 + 0 = 6
7 + 0 = 7
8 + 0 = 8
9 + 0 = 9
10 + 0 = 10
11 + 0 = 11
12 + 0 = 12
0
ADDITION
0 + 0 = 0
1 + 0 = 1
2 + 0 = 2
3 + 0 = 3
4 + 0 = 4
5 + 0 = 5
6 + 0 = 6
7 + 0 = 7
8 + 0 = 8
9 + 0 = 9
10 + 0 = 10
11 + 0 = 11
12 + 0 = 12

BOOKMARKS


1
ADDITION
0 + 1 = 1
1 + 1 = 2
2 + 1 = 3
3 + 1 = 4
4 + 1 = 5
5 + 1 = 6
6 + 1 = 7
7 + 1 = 8
8 + 1 = 9
9 + 1 = 10
10 + 1 = 11
11 + 1 = 12
12 + 1 = 13
1
ADDITION
0 + 1 = 1
1 + 1 = 2
2 + 1 = 3
3 + 1 = 4
4 + 1 = 5
5 + 1 = 6
6 + 1 = 7
7 + 1 = 8
8 + 1 = 9
9 + 1 = 10
10 + 1 = 11
11 + 1 = 12
12 + 1 = 13
1
ADDITION
0 + 1 = 1
1 + 1 = 2
2 + 1 = 3
3 + 1 = 4
4 + 1 = 5
5 + 1 = 6
6 + 1 = 7
7 + 1 = 8
8 + 1 = 9
9 + 1 = 10
10 + 1 = 11
11 + 1 = 12
12 + 1 = 13

BOOKMARKS

2 ADDITION

0 + 2 = 2
1 + 2 = 3
2 + 2 = 4
3 + 2 = 5
4 + 2 = 6
5 + 2 = 7
6 + 2 = 8
7 + 2 = 9
8 + 2 = 10
9 + 2 = 11
10 + 2 = 12
11 + 2 = 13
12 + 2 = 14

2 ADDITION

0 + 2 = 2
1 + 2 = 3
2 + 2 = 4
3 + 2 = 5
4 + 2 = 6
5 + 2 = 7
6 + 2 = 8
7 + 2 = 9
8 + 2 = 10
9 + 2 = 11
10 + 2 = 12
11 + 2 = 13
12 + 2 = 14

2 ADDITION

0 + 2 = 2
1 + 2 = 3
2 + 2 = 4
3 + 2 = 5
4 + 2 = 6
5 + 2 = 7
6 + 2 = 8
7 + 2 = 9
8 + 2 = 10
9 + 2 = 11
10 + 2 = 12
11 + 2 = 13
12 + 2 = 14

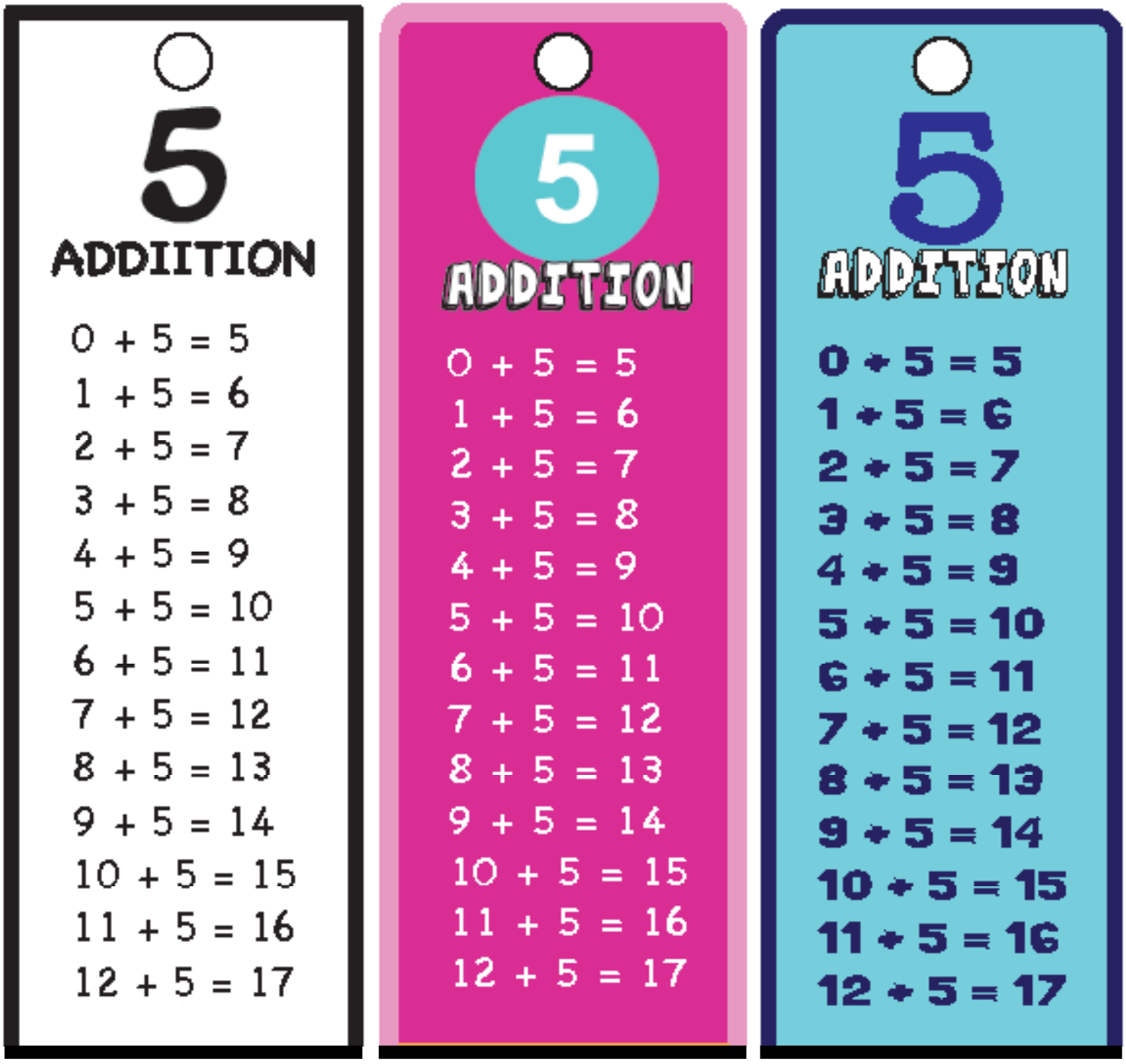
BOOKMARKS


3
ADDITION
0 + 3 = 3
1 + 3 = 4
2 + 3 = 5
3 + 3 = 6
4 + 3 = 7
5 + 3 = 8
6 + 3 = 9
7 + 3 = 10
8 + 3 = 11
9 + 3 = 12
10 + 3 = 13
11 + 3 = 14
12 + 3 = 15
3
ADDITION
0 + 3 = 3
1 + 3 = 4
2 + 3 = 5
3 + 3 = 6
4 + 3 = 7
5 + 3 = 8
6 + 3 = 9
7 + 3 = 10
8 + 3 = 11
9 + 3 = 12
10 + 3 = 13
11 + 3 = 14
12 + 3 = 15
3
ADDITION
0 + 3 = 3
1 + 3 = 4
2 + 3 = 5
3 + 3 = 6
4 + 3 = 7
5 + 3 = 8
6 + 3 = 9
7 + 3 = 10
8 + 3 = 11
9 + 3 = 12
10 + 3 = 13
11 + 3 = 14
12 + 3 = 15

BOOKMARKS


4
ADDITION
0 + 4 = 4
1 + 4 = 5
2 + 4 = 6
3 + 4 = 7
4 + 4 = 8
5 + 4 = 9
6 + 4 = 10
7 + 4 = 11
8 + 4 = 12
9 + 4 = 13
10 + 4 = 14
11 + 4 = 15
12 + 4 = 16
4
ADDITION
0 + 4 = 4
1 + 4 = 5
2 + 4 = 6
3 + 4 = 7
4 + 4 = 8
5 + 4 = 9
6 + 4 = 10
7 + 4 = 11
8 + 4 = 12
9 + 4 = 13
10 + 4 = 14
11 + 4 = 15
12 + 4 = 16
4
ADDITION
0 + 4 = 4
1 + 4 = 5
2 + 4 = 6
3 + 4 = 7
4 + 4 = 8
5 + 4 = 9
6 + 4 = 10
7 + 4 = 11
8 + 4 = 12
9 + 4 = 13
10 + 4 = 14
11 + 4 = 15
12 + 4 = 16

BOOKMARKS


5
ADDIITION
0 + 5 = 5
1 + 5 = 6
2 + 5 = 7
3 + 5 = 8
4 + 5 = 9
5 + 5 = 10
6 + 5 = 11
7 + 5 = 12
8 + 5 = 13
9 + 5 = 14
10 + 5 = 15
11 + 5 = 16
12 + 5 = 17
5
ADDITION
0 + 5 = 5
1 + 5 = 6
2 + 5 = 7
3 + 5 = 8
4 + 5 = 9
5 + 5 = 10
6 + 5 = 11
7 + 5 = 12
8 + 5 = 13
9 + 5 = 14
10 + 5 = 15
11 + 5 = 16
12 + 5 = 17
5
ADDITION
0 + 5 = 5
1 + 5 = 6
2 + 5 = 7
3 + 5 = 8
4 + 5 = 9
5 + 5 = 10
6 + 5 = 11
7 + 5 = 12
8 + 5 = 13
9 + 5 = 14
10 + 5 = 15
11 + 5 = 16
12 + 5 = 17

BOOKMARKS


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

BOOKMARKS


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

BOOKMARKS


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

BOOKMARKS


9
ADDITION
0 + 9 = 9
1 + 9 = 10
2 + 9 = 11
3 + 9 = 12
4 + 9 = 13
5 + 9 = 14
6 + 9 = 15
7 + 9 = 16
8 + 9 = 17
9 + 9 = 18
10 + 9 = 19
11 + 9 = 20
12 + 9 = 21
9
ADDITION
0 + 9 = 9
1 + 9 = 10
2 + 9 = 11
3 + 9 = 12
4 + 9 = 13
5 + 9 = 14
6 + 9 = 15
7 + 9 = 16
8 + 9 = 17
9 + 9 = 18
10 + 9 = 19
11 + 9 = 20
12 + 9 = 21
9
ADDITION
0 + 9 = 9
1 + 9 = 10
2 + 9 = 11
3 + 9 = 12
4 + 9 = 13
5 + 9 = 14
6 + 9 = 15
7 + 9 = 16
8 + 9 = 17
9 + 9 = 18
10 + 9 = 19
11 + 9 = 20
12 + 9 = 21

BOOKMARKS

10
ADDITION

0 + 10 = 10
1 + 10 = 11
2 + 10 = 12
3 + 10 = 13
4 + 10 = 14
5 + 10 = 15
6 + 10 = 16
7 + 10 = 17
8 + 10 = 18
9 + 10 = 19
10 + 10 = 20
11 + 10 = 21
12 + 10 = 22

10
ADDITION

0 + 10 = 10
1 + 10 = 11
2 + 10 = 12
3 + 10 = 13
4 + 10 = 14
5 + 10 = 15
6 + 10 = 16
7 + 10 = 17
8 + 10 = 18
9 + 10 = 19
10 + 10 = 20
11 + 10 = 21
12 + 10 = 22

10
ADDITION

0 + 10 = 10
1 + 10 = 11
2 + 10 = 12
3 + 10 = 13
4 + 10 = 14
5 + 10 = 15
6 + 10 = 16
7 + 10 = 17
8 + 10 = 18
9 + 10 = 19
10 + 10 = 20
11 + 10 = 21
12 + 10 = 22

BOOKMARKS

11
ADDITION

0 + 11 = 11
1 + 11 = 12
2 + 11 = 13
3 + 11 = 14
4 + 11 = 15
5 + 11 = 16
6 + 11 = 17
7 + 11 = 18
8 + 11 = 19
9 + 11 = 20
10 + 11 = 21
11 + 11 = 22
12 + 11 = 23

11
ADDITION

0 + 11 = 11
1 + 11 = 12
2 + 11 = 13
3 + 11 = 14
4 + 11 = 15
5 + 11 = 16
6 + 11 = 17
7 + 11 = 18
8 + 11 = 19
9 + 11 = 20
10 + 11 = 21
11 + 11 = 22
12 + 11 = 23

11
ADDITION

0 + 11 = 11
1 + 11 = 12
2 + 11 = 13
3 + 11 = 14
4 + 11 = 15
5 + 11 = 16
6 + 11 = 17
7 + 11 = 18
8 + 11 = 19
9 + 11 = 20
10 + 11 = 21
11 + 11 = 22
12 + 11 = 23

BOOKMARKS

12
ADDITION

0 + 12 = 12
1 + 12 = 13
2 + 12 = 14
3 + 12 = 15
4 + 12 = 16
5 + 12 = 17
6 + 12 = 18
7 + 12 = 19
8 + 12 = 20
9 + 12 = 21
10 + 12 = 22
11 + 12 = 23
12 + 12 = 24

12
ADDITION

0 + 12 = 12
1 + 12 = 13
2 + 12 = 14
3 + 12 = 15
4 + 12 = 16
5 + 12 = 17
6 + 12 = 18
7 + 12 = 19
8 + 12 = 20
9 + 12 = 21
10 + 12 = 22
11 + 12 = 23
12 + 12 = 24

12
ADDITION

0 + 12 = 12
1 + 12 = 13
2 + 12 = 14
3 + 12 = 15
4 + 12 = 16
5 + 12 = 17
6 + 12 = 18
7 + 12 = 19
8 + 12 = 20
9 + 12 = 21
10 + 12 = 22
11 + 12 = 23
12 + 12 = 24

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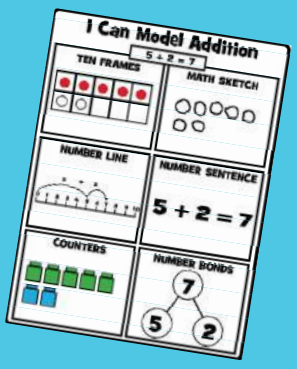

This Teacher's Addition Resource Toolkit was created to help teach addition. There are many different templates, activity sheets and backline masters to use to differentiate instruction. Use these resources to scaffold access to grade level content for all your students!