



A D D I T I O N

S U B T R A C T I O N



Math Opportunities • Valuable Experiences • Innovative Teaching
MOVE IT with manipulatives! MOVE IT through the curriculum! MOVE IT in the 21st century!



Addition & Subtraction

Grades 1 - 6

MOVE IT Math™

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INTRODUCTION

In MOVE IT Math™, virtually every elementary school student masters Monster Addition in Grade 1 and Monster Subtraction in Grade 2. The justifiable pride they realize in such accomplishments defies any feelings of inadequacy they or their teachers and parents may feel about their ability in math. They believe they can do *anything* — even learn how to read. There you have it — the reason for imposing such astounding expectations on young children: self-esteem and self-confidence based on demonstrable achievement, not hype!

Monster Addition and Monster Subtraction are not about discarding calculators and “getting back to the basics” — those of paper-and-pencil math. They are about accomplishing something human that cannot be achieved with a calculator: *empowerment*. When a young child can flawlessly add and subtract even 10-digit numbers with paper and pencil, they *know* they know. When they punch numbers into a calculator, all they know is that the calculator knows.

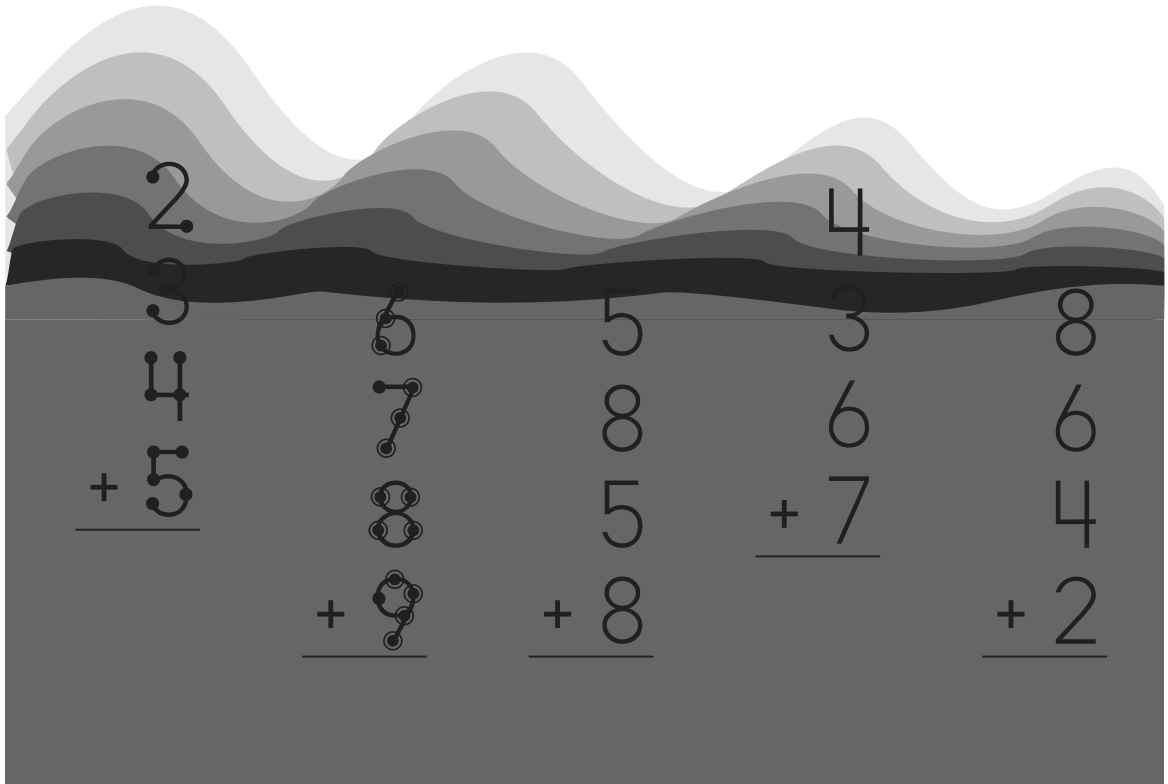
The prerequisites for Monster Addition are the addition facts and the Addition Facts Algorithm. Those for Monster Subtraction are the subtraction facts and the standard subtraction algorithm coupled with an understanding of how a place value numeration system works. In MOVE IT Math™, these topics are covered in the Number Facts key and the Fair Lands™ key.

The culminating activities for this booklet are to become certified in Monster Addition and Monster Subtraction (and thereby becoming members of the Monster Math Club of America!). The materials for that purpose are contained in another free MOVE IT Math™ e-book: *Monster Math Certification & Awards Program*.

Becoming certified in Monster Addition and Monster Subtraction in the early grades and Monster Multiplication and Monster Division by Grade 3 achieves two purposes: For students, it documents mastery of whole number arithmetic. For teachers, it validates closure for the subject. Except for periodic review, there is no need to teach it over and over again year after year. By deleting what would be unnecessary redundancy, the standard elementary school math curriculum can be shifted down by about 2 years, making pre-algebra, as taught with manipulatives, a viable 6th grade course for *ALL* students.

Roll It! 1-column addition

Name _____



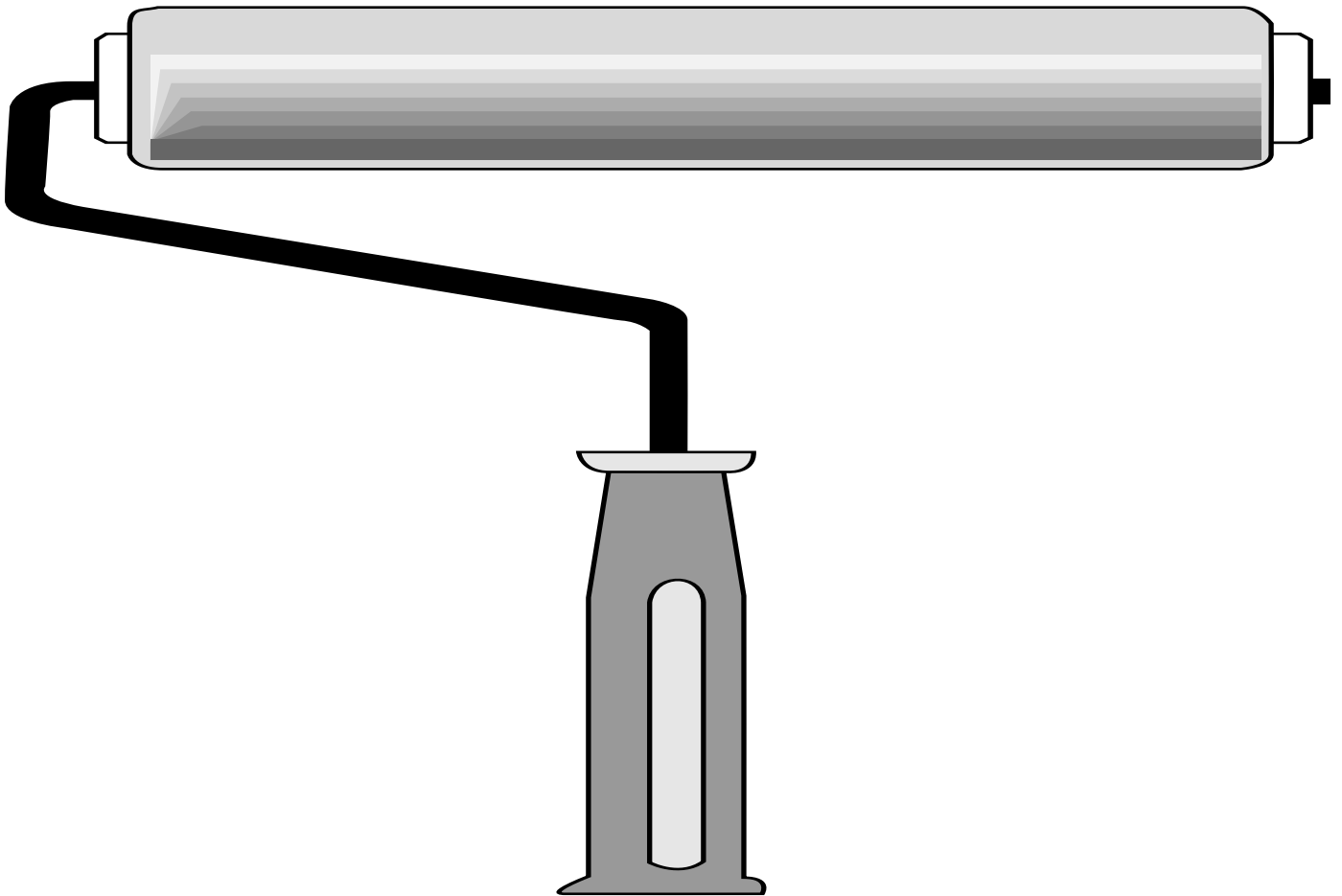
2
3
+ 5

5
7
8
+ 8

5
8
5
+ 8

4
3
6
+ 7

8
6
4
+ 2

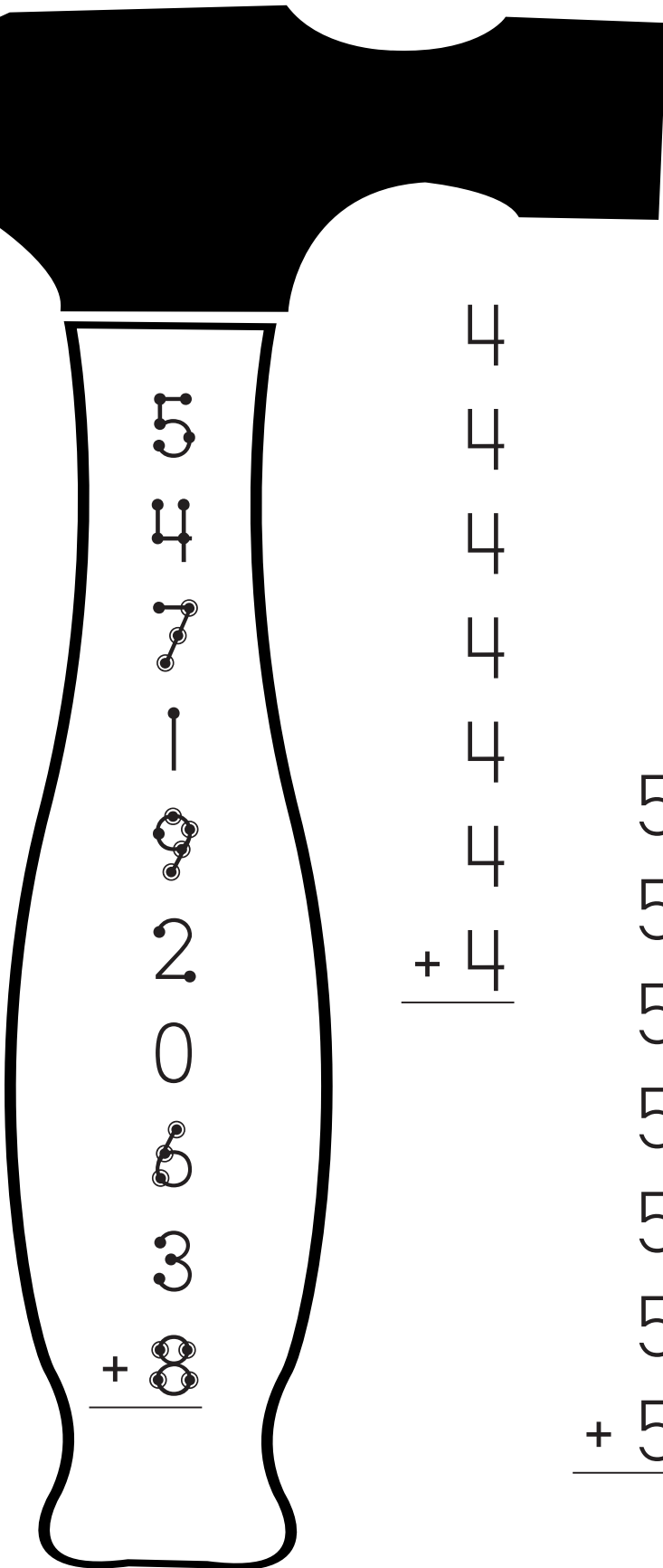


Math Power I-column addition

Name _____

$$\begin{array}{r} + \\ \hline 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \end{array}$$

$$\begin{array}{r} + \\ \hline 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \end{array}$$



$$\begin{array}{r} + \\ \hline 8 \\ 3 \\ 0 \\ 2 \\ 1 \\ 4 \\ 5 \end{array}$$

$$\begin{array}{r} + \\ \hline 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \end{array}$$

$$\begin{array}{r} + \\ \hline 5 \\ 5 \\ 5 \\ 5 \\ 5 \end{array}$$

Wipe Out!
1- and 2-column addition

Name _____

$$\begin{array}{r} + 88 \\ \hline 22 \\ 28 \\ 54 \\ 54 \\ 22 \\ 23 \\ 45 \\ - \end{array}$$

$$\begin{array}{r} + 44 \\ \hline 48 \\ 51 \\ 50 \\ 20 \\ 20 \\ 54 \\ 44 \end{array}$$

$$\begin{array}{r} + 34 \\ \hline 42 \\ 23 \\ 96 \\ 88 \\ 78 \end{array}$$

$$\begin{array}{r} + 95 \\ \hline 38 \\ 29 \end{array}$$

$$\begin{array}{r} + 11 \\ \hline 24 \\ 28 \end{array}$$

$$\begin{array}{r} + 55 \\ \hline 31 \\ 38 \end{array}$$

$$\begin{array}{r} + 88 \\ \hline 85 \\ 88 \end{array}$$

$$\begin{array}{r} + 88 \\ \hline 65 \\ 74 \end{array}$$

$$\begin{array}{r} + 22 \\ \hline 98 \\ 85 \end{array}$$

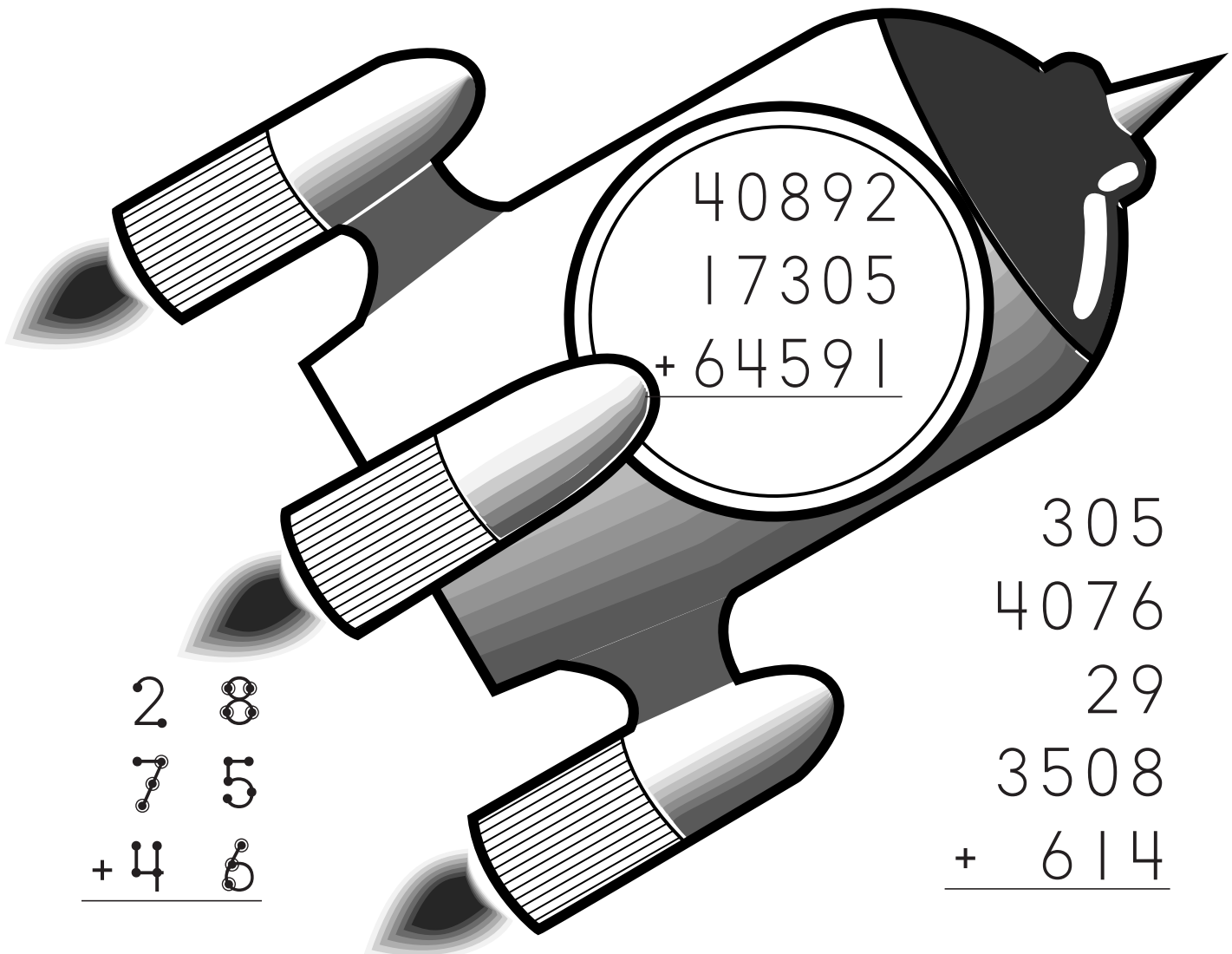
Outward Bound Addition mini-monsters

Name _____



$$\begin{array}{r} 13579 \\ 24680 \\ + 98979 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ 46 \\ 79 \\ 28 \\ + 10 \\ \hline \end{array}$$



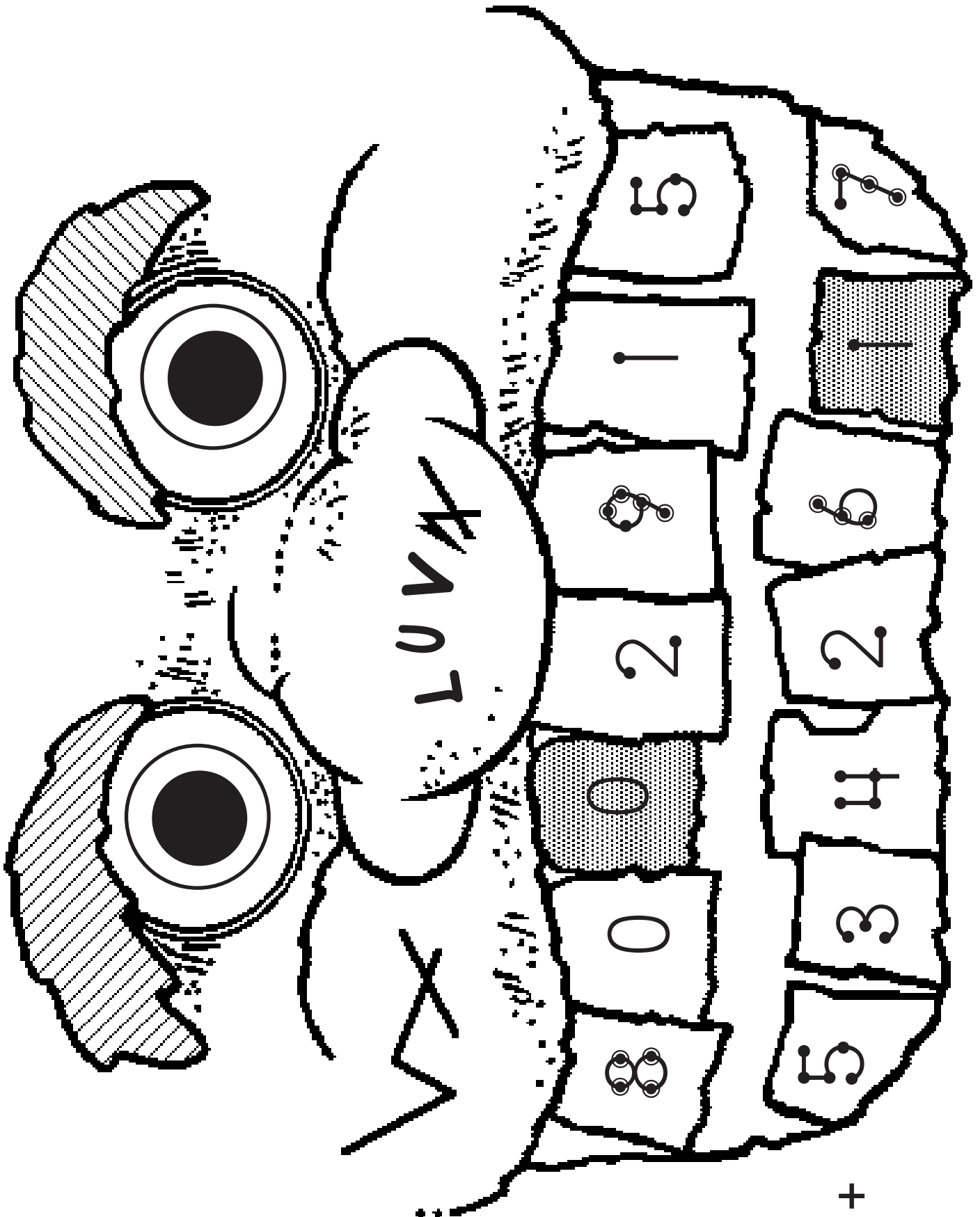
$$\begin{array}{r} 40892 \\ 17305 \\ + 64591 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ 75 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 305 \\ 4076 \\ 29 \\ 3508 \\ + 614 \\ \hline \end{array}$$

LUV
Addition mini-monster

Name _____



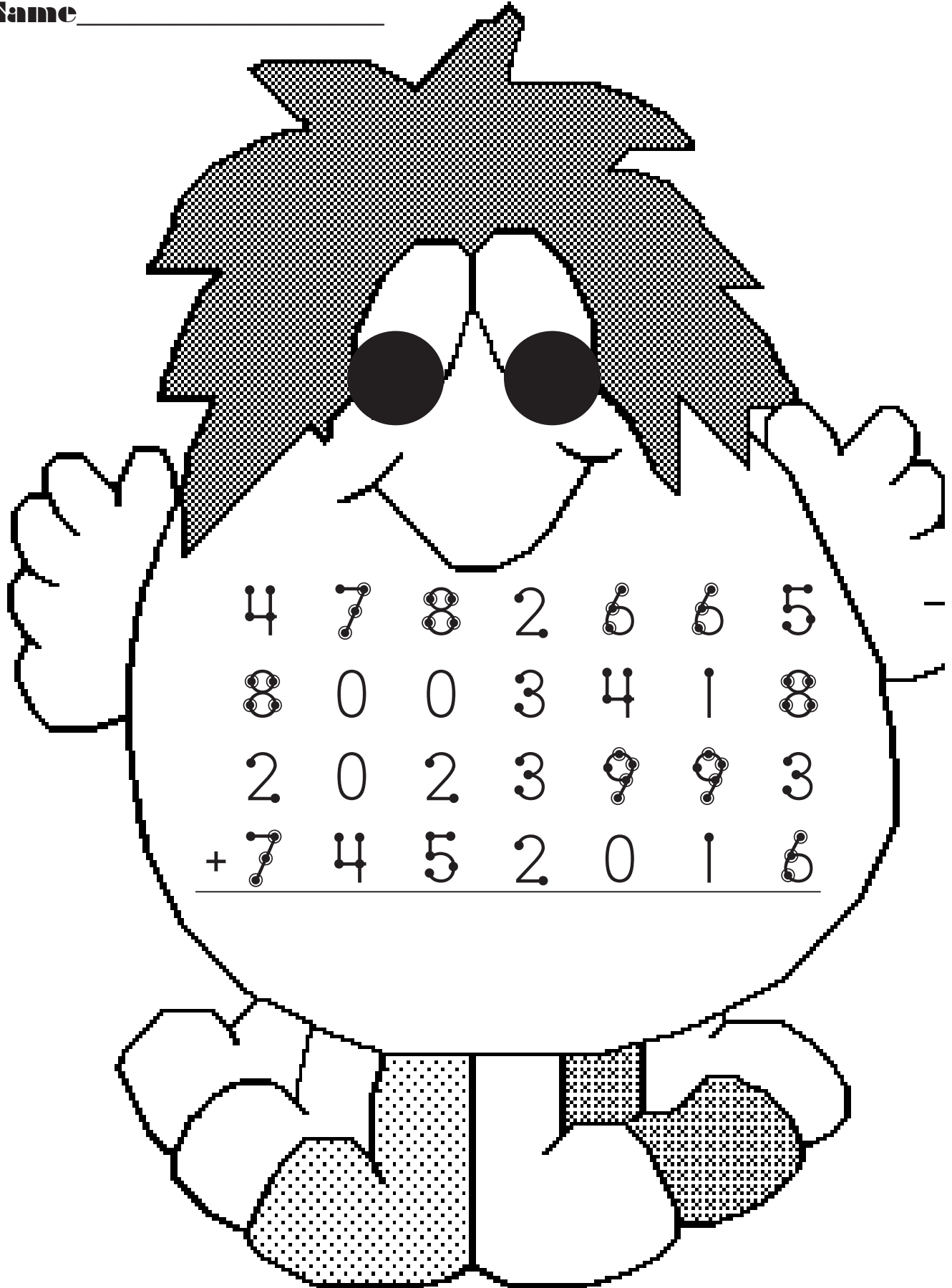
**Martian
Addition mini-monster**

Name _____



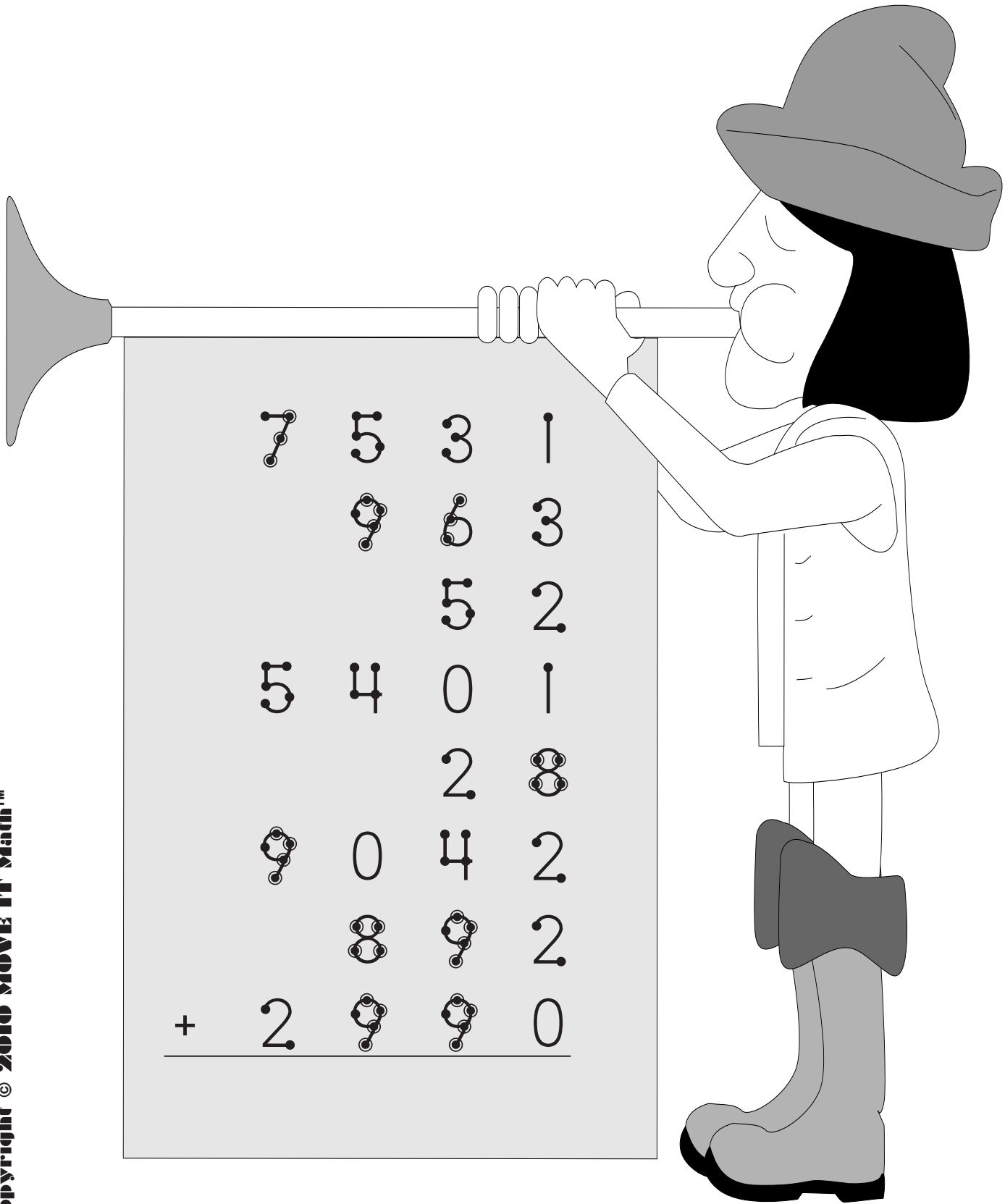
Hexaped Addition mini-monster

Name _____



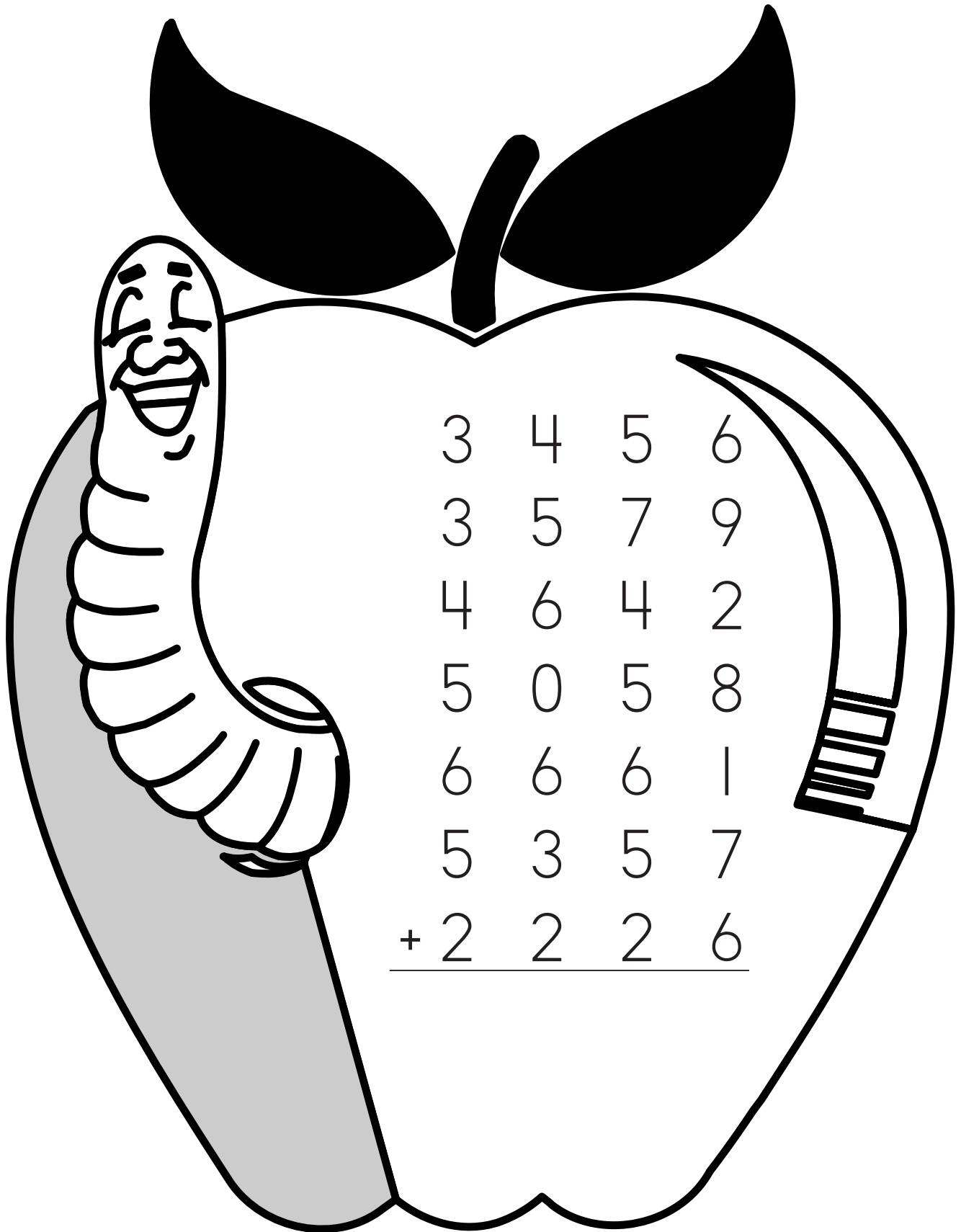
Math Blast!
Addition mini-monster

Name _____



Teacher's Pet
Addition mini-monster

Name _____



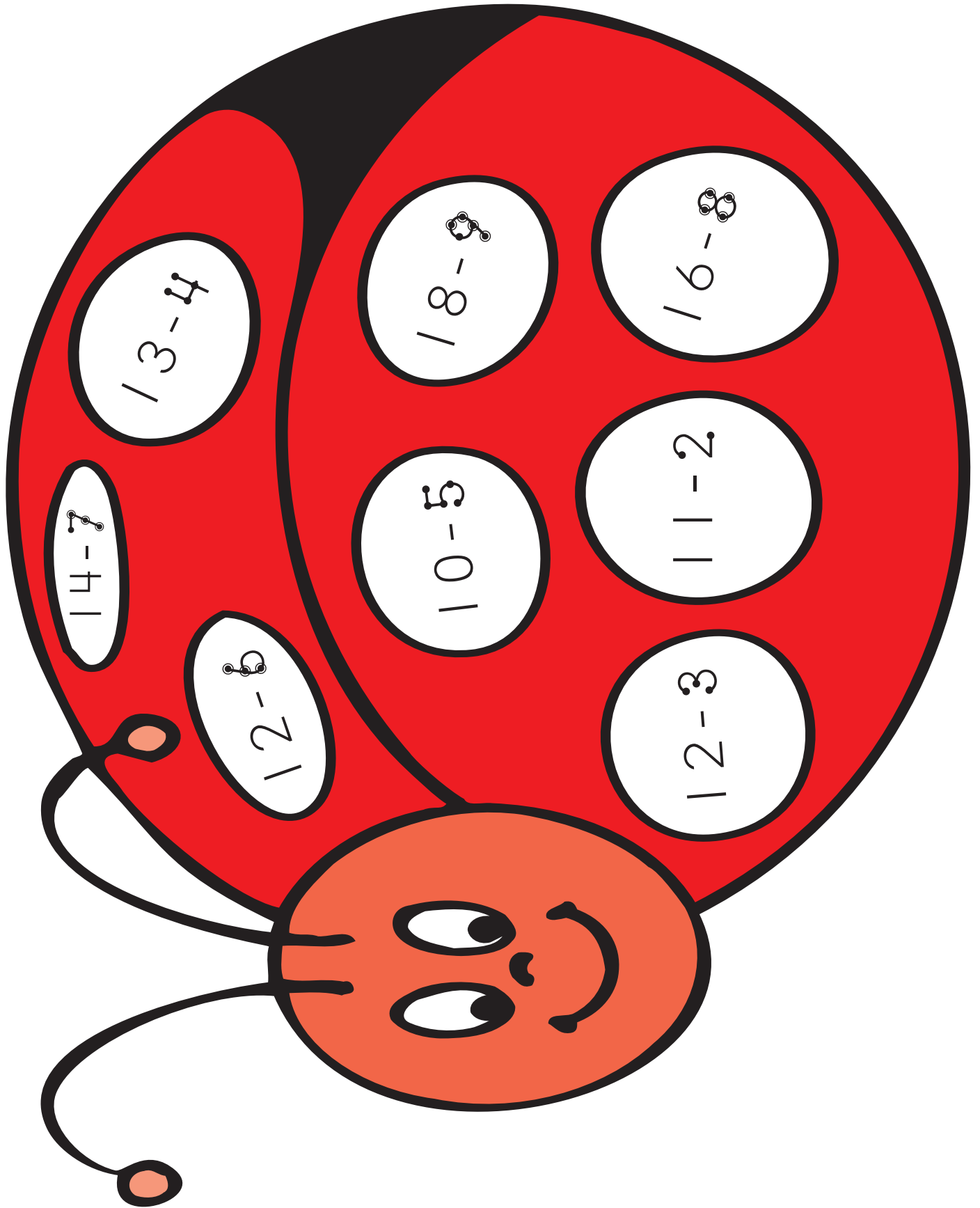
Ninety-nine Number Wallpaper Monster Addition

Name _____

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

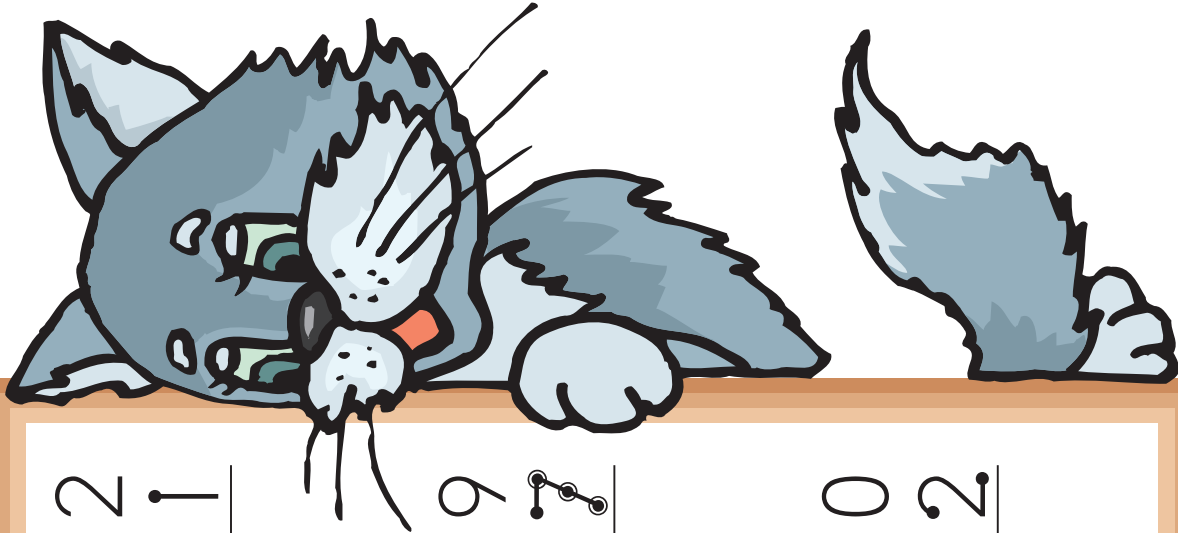
**Ladybug
Subtraction facts**

Name _____



Cat & Mouse
Subtraction mini-monsters

Name _____



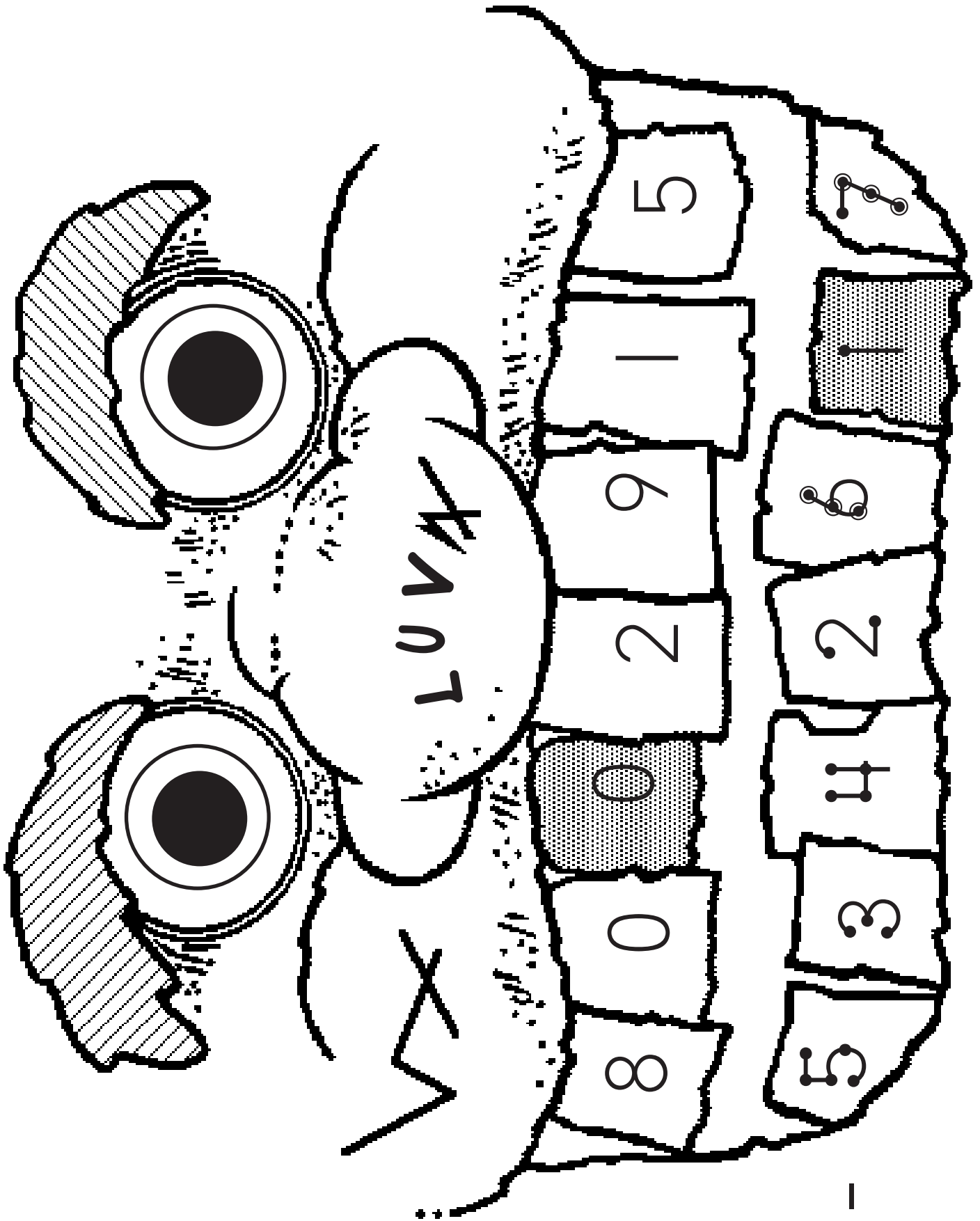
$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array} \quad \begin{array}{r} 78 \\ - 26 \\ \hline \end{array} \quad \begin{array}{r} 536 \\ - 125 \\ \hline \end{array} \quad \begin{array}{r} 9462 \\ - 8351 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ - 26 \\ \hline \end{array} \quad \begin{array}{r} 490 \\ - 370 \\ \hline \end{array} \quad \begin{array}{r} 8239 \\ - 6107 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} 81 \\ - 46 \\ \hline \end{array} \quad \begin{array}{r} 703 \\ - 536 \\ \hline \end{array} \quad \begin{array}{r} 6380 \\ - 3542 \\ \hline \end{array}$$

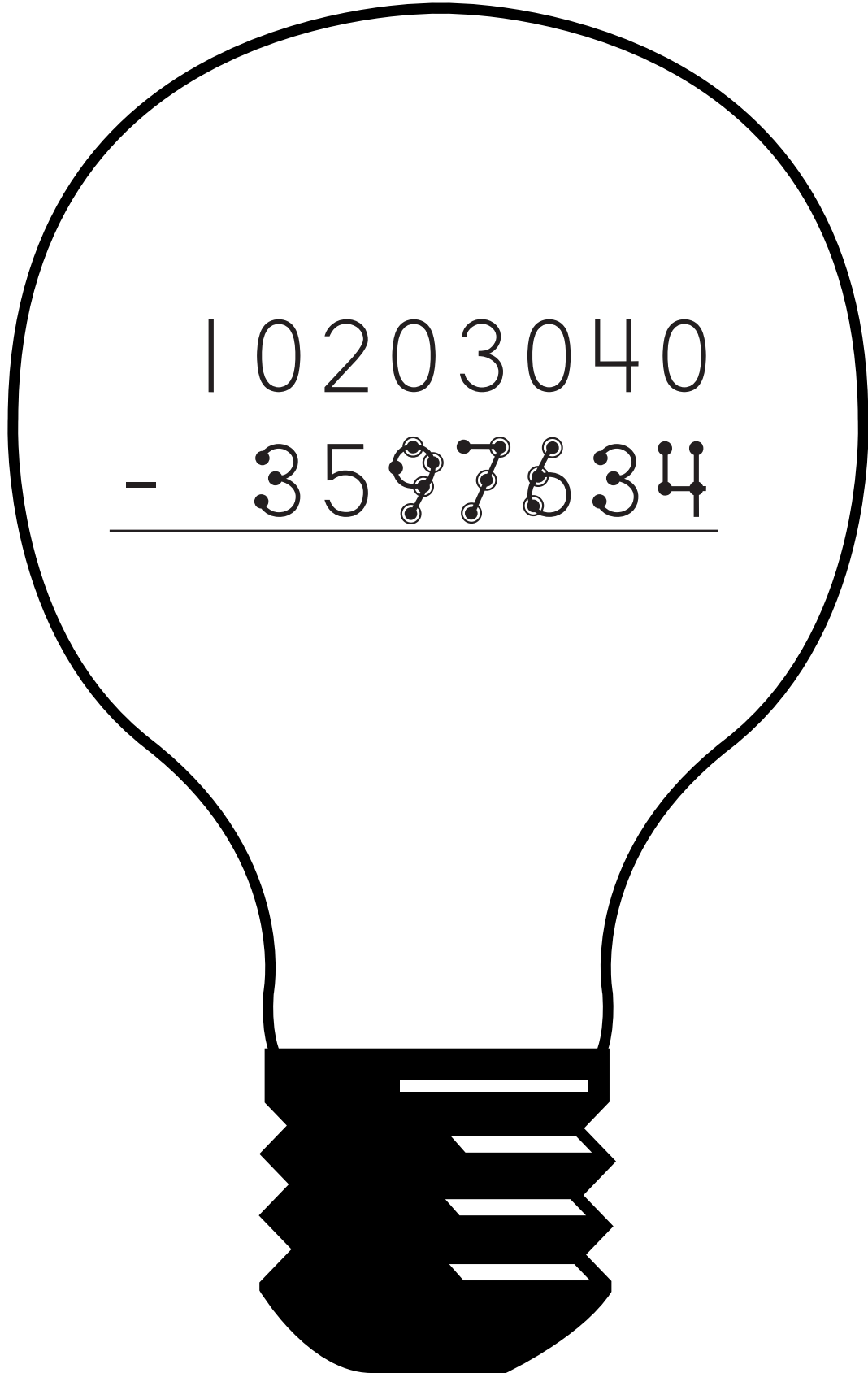
LUV
Subtraction mini-monster

Name _____



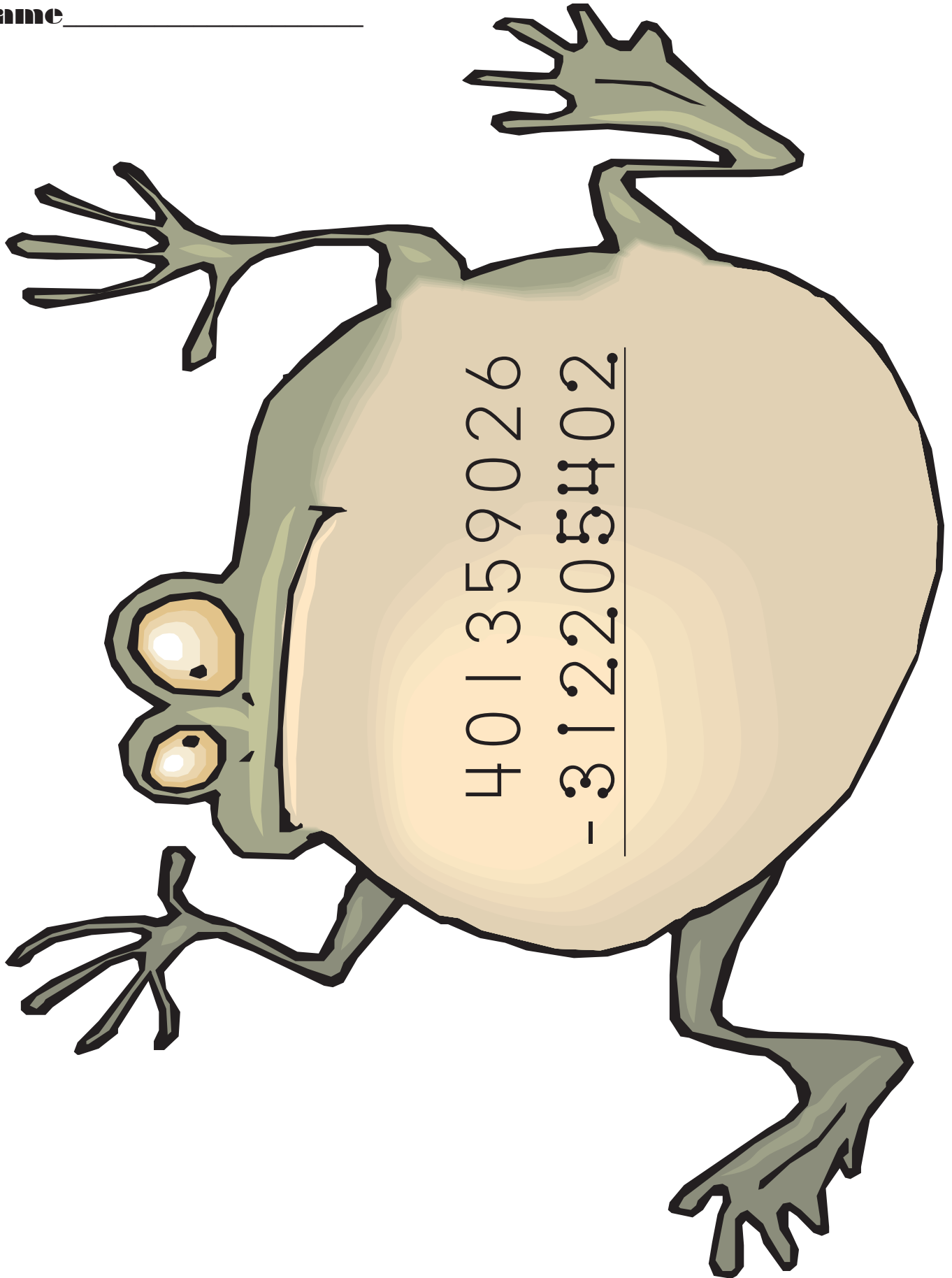
Aha!
Subtraction mini-monster

Name _____



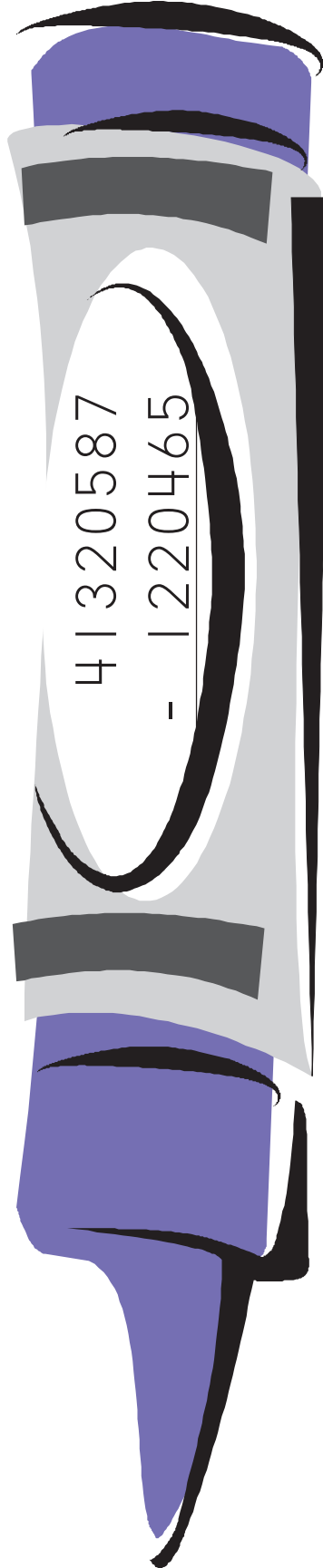
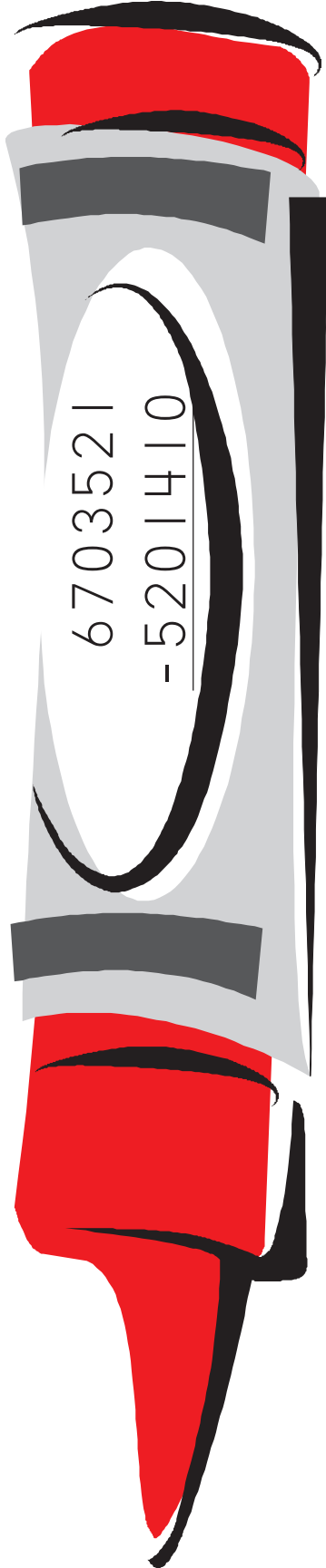
Croak!
Subtraction mini-monster

Name _____



Colors
Subtraction mini-monsters

Name _____



Hot Dog! Monster Subtraction

Name _____



**Martian
Monster subtraction**

Name _____



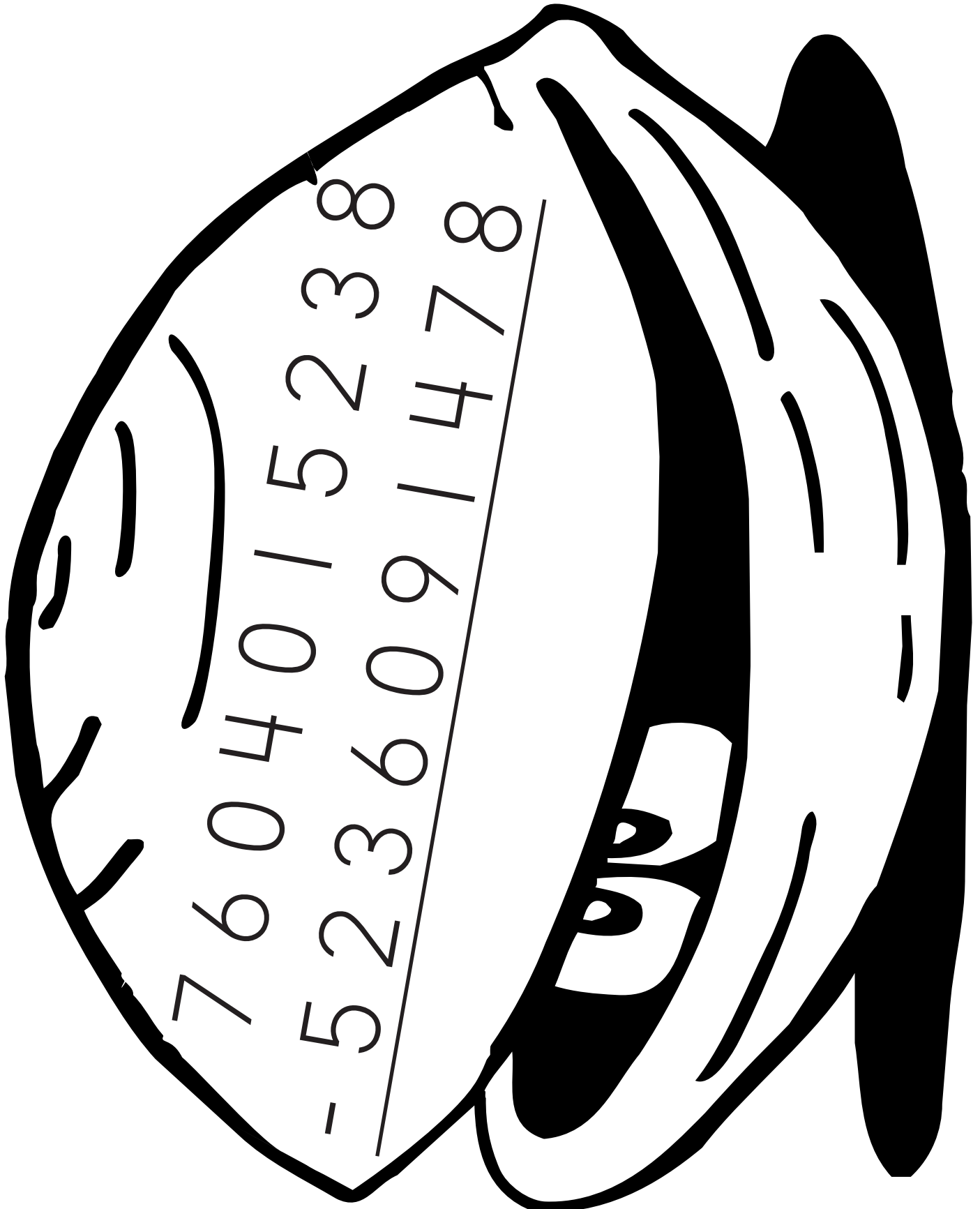
Encore!
Monster Subtraction

Name _____


$$\begin{array}{r} 8093610027 \\ - 5032795106 \\ \hline \end{array}$$

**Scary Out There!
Monster Subtraction**

Name _____



**Serious School
Mini-monster addition and subtraction**

Name _____

$$\begin{array}{r} 4 \ 9 \\ 7 \ 8 \\ + 2 \ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \ 4 \\ 4 \ 5 \\ + 6 \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 3 \\ - \ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 730096041 \\ - 45183709 \\ \hline \end{array}$$

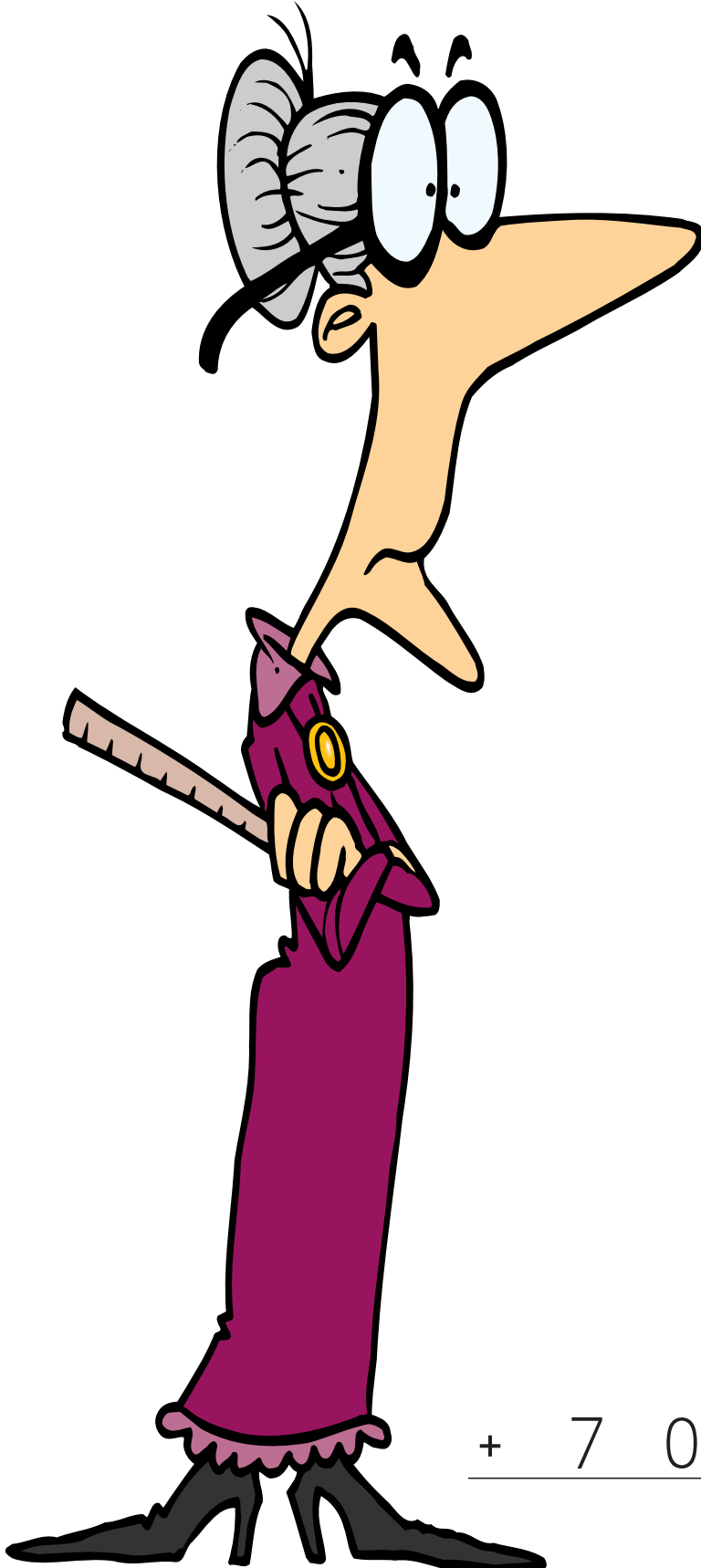
$$\begin{array}{r} 1 \ 8 \\ - \ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \ 2 \\ 3 \ 7 \\ 5 \ 4 \\ + 5 \ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 4 \\ - \ 8 \\ \hline \end{array}$$

No Guessing!
Mini-monster addition and subtraction

Name _____



$$\begin{array}{r} 641280050 \\ - 54173608 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ 44 \\ 80 \\ 61 \\ 40 \\ 53 \\ 99 \\ 51 \\ 72 \\ 28 \\ 46 \\ 72 \\ 13 \\ 46 \\ + 70613893 \\ \hline \end{array}$$

Don't Tread on Me
Mini-monster addition and subtraction

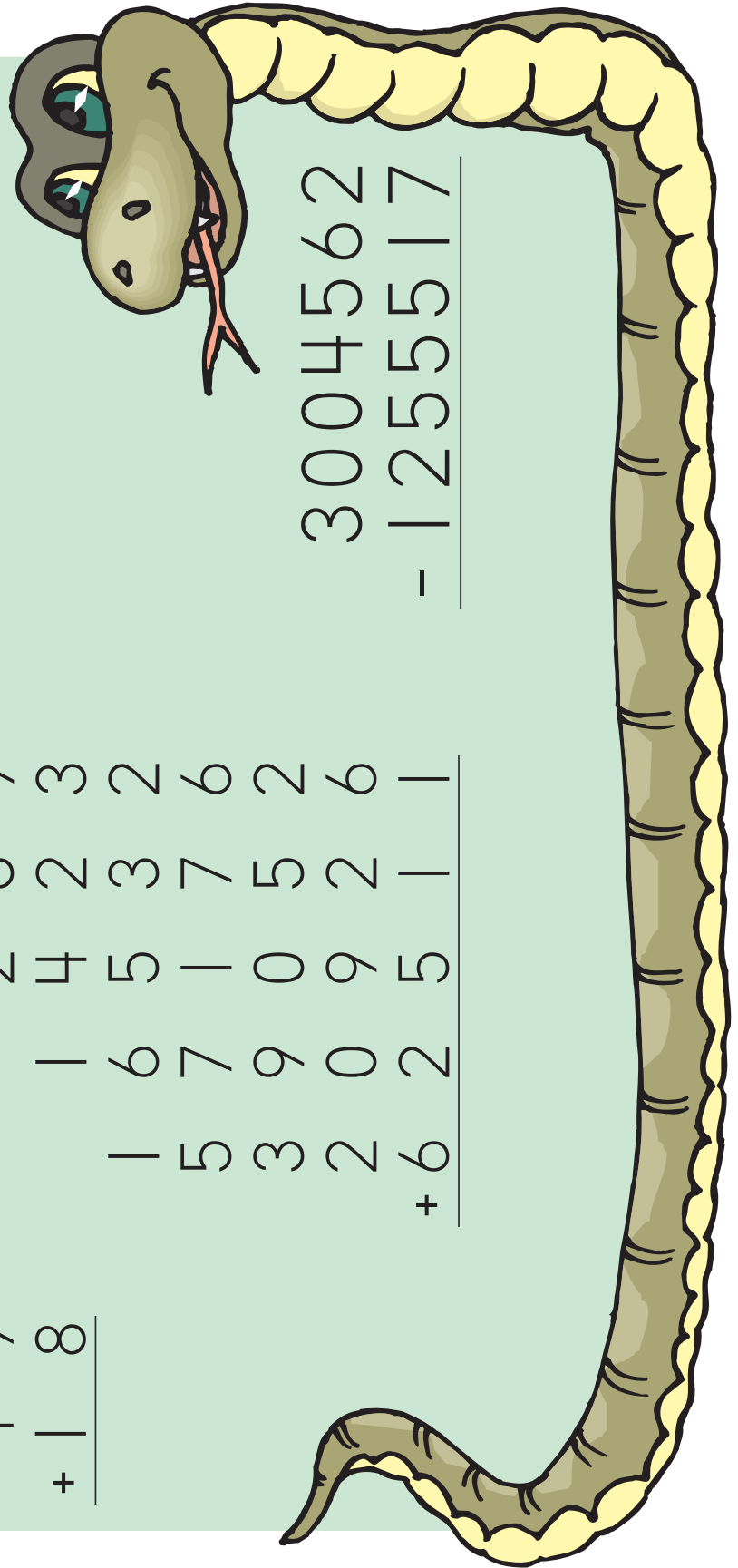
Name _____

$$\begin{array}{r} 903046825 \\ - 43138528 \\ \hline \end{array}$$

$$\begin{array}{r} 507932626 \\ 2618237521 \\ 432451095 \\ \hline 167902 \\ +6 \\ \hline \end{array}$$

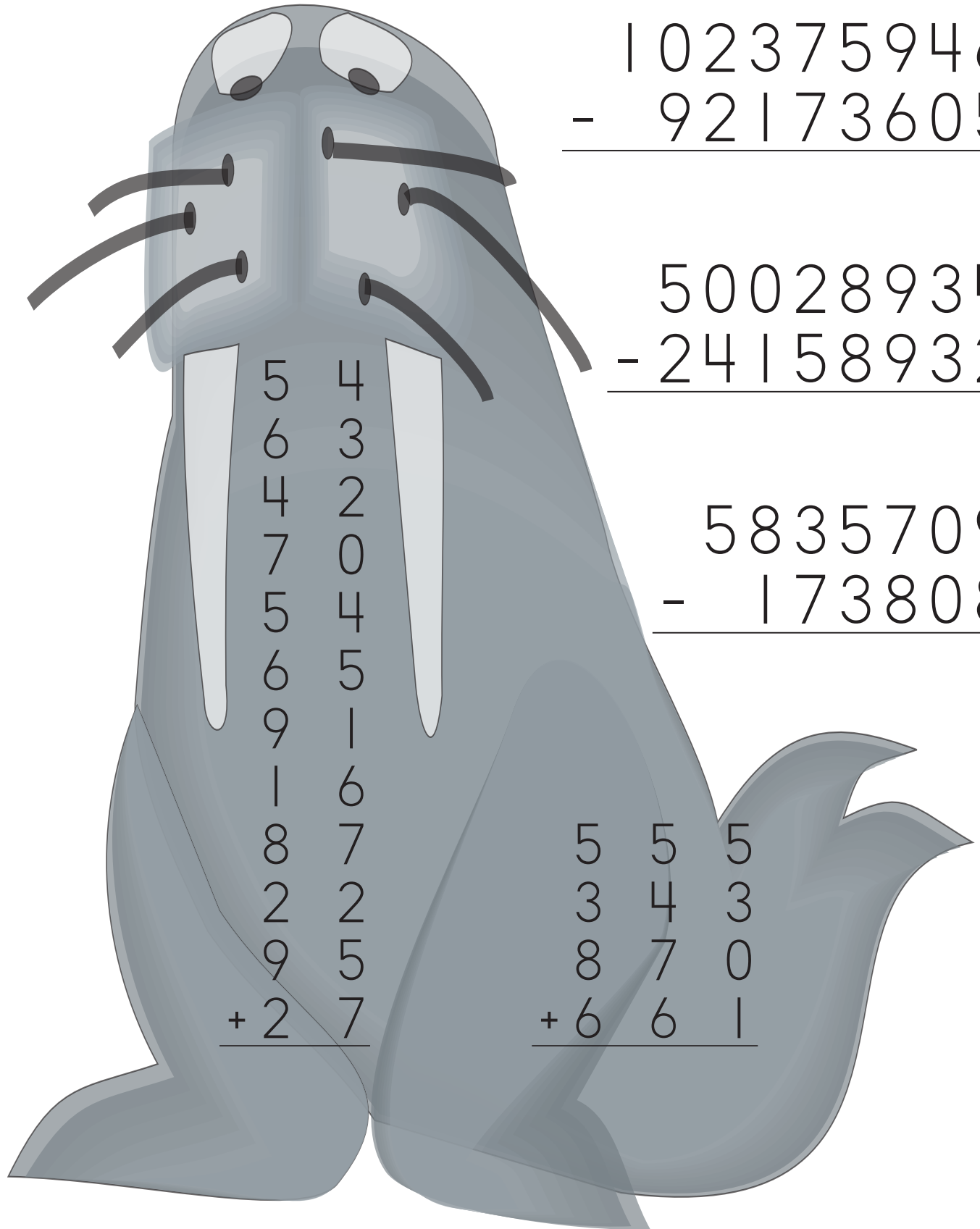
$$\begin{array}{r} 65201298 \\ 59684241 \\ \hline +1 \\ \hline \end{array}$$

$$\begin{array}{r} 3004562 \\ - 125517 \\ \hline \end{array}$$



Amazed Walrus!
Mini-monster addition and subtraction

Name _____



$$\begin{array}{r} 102375946 \\ - 92173605 \\ \hline \end{array}$$

$$\begin{array}{r} 50028934 \\ - 24158932 \\ \hline \end{array}$$

$$\begin{array}{r} 5835709 \\ - 173808 \\ \hline \end{array}$$

Big Ones That Didn't Get Away Monster Addition and Subtraction

Name _____



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



Addition

1. 14; 30; 26; 20; 20
2. 21; 14; 45; 28; 35
3. 428; 480; 453; 297; 20; 26; 34; 30; 27
4. 137,238; 198; 122,788; 149; 8,532
5. 13,345,532
6. 320,039,163,546
7. 22,262,092
8. 26,899
9. 30,979
10. 49,999,999,995

Subtraction

11. 6; 7; 9; 5; 9; 9; 9; 8
12. 7; 52; 411; 1,111; 9; 10; 120; 2,132; 7; 35; 167; 2,838
13. 2,660,298
14. 6,605,406
15. 89,153,624
16. 1,502,111; 40,100,122; 154,841,322
17. 1,111,111,101
18. 289,357,253,718
19. 3,060,814,921
20. 2,367,923,760

Addition & Subtraction

21. 153; 7; 136; 684,912,332; 9; 233; 6
22. 71,380,885
23. 423; 198,711; 859,908,297; 1,749,045
24. 686; 2,429; 10,202,341; 25,870,002; 5,661,901
25. 50,061,027,645; 1,732,667,444