

40 Fun-tabulous Puzzles

for Multiplication, Division,
Decimals, Fractions & More!

by Bob Olenych

S C H O L A S T I C
PROFESSIONAL BOOKS

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Introduction

MATH CAN BE FUN . . . FUN-TABULOUS!

We teachers know that “practice makes perfect”—especially for building computation skills. The puzzles in this book have provided excellent computation practice for my entire class and have motivated my most reluctant students. Many years of experience developing and using puzzles in the classroom have convinced me that when students are engaged by activities such as the puzzles in this book, they will learn effectively and tackle new challenges. While my students are “having fun” solving riddles and working through mazes, they also are building essential skills: addition, subtraction, multiplication and division—the building blocks of mathematics.

WHAT YOU’LL FIND IN THIS BOOK

This book of 40 puzzles is organized by skill areas and includes: number concepts, addition, subtraction, multiplication, division, order of operations, fractions and decimals, graphing, and time. Each section targets particular subskills, which are listed in the table of contents as well as on the practice pages.

CONNECTIONS TO THE MATH STANDARDS

Most of the puzzles in this book target *NCTM 2000* objectives listed under the Number and Operations standard. These objectives include understanding ways to represent numbers, determining meanings of operations and how they relate to one another, and computing with fluency and accuracy. This book is packed with exercises that require students to use the basic operations (addition, subtraction, multiplication, and division) in a variety of patterns—with whole numbers, decimals, and fractions.

“Riddle Time” and other puzzles feature variables, symbols, and graphs that require students to use strategies outlined in the objectives listed under the Algebra standard. Such strategies include understanding patterns, relations, and functions, and analyzing mathematical equations that use variables.

HOW TO USE THIS BOOK

I’ve been able to use these puzzles to meet a number of instructional goals: I usually assign one of these puzzles as a follow-up to a lesson. I also use these puzzles as review sheets and quizzes to monitor my students’ progress in a specific skill area. And because these puzzles are self-correcting, they make ideal independent and homework assignments; a correct assignment will provide a solution to a riddle or a perfect match for numbers in a puzzle. If a student’s answer does not correspond with one of the answers provided or it creates a glitch in the riddle, students realize that they’ve made an error and will double-check their work to arrive at the right solution.

My students eagerly await math period and frequently ask for these puzzles. I’m confident that your students will enjoy and benefit from this collection, too.

Bob Olenych

Name _____ Date _____

Rewriting words as numbers; place value

Reveal a Historical Fact

Express each number below in its numerical form. Then find your answers in the grid below and cross them out. Answers run horizontally, left to right. Starting from the top left, find each of the remaining letters and print them in order in the boxes at the bottom: The 41 boxes that are left over will reveal a secret message!



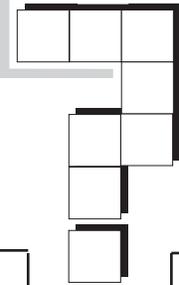
1. Two thousand six hundred eleven _____
2. Thirty-four thousand eighty-nine _____
3. Six hundred twenty-six thousand eight hundred fifty-four _____
4. Eight thousand eight _____
5. Six million five hundred thirty-four thousand two hundred eleven _____
6. Forty-eight million nine hundred seven thousand eight hundred sixteen _____
7. Five hundred eight thousand seven hundred ninety-eight _____
8. Eighty million one hundred sixteen thousand two hundred eleven _____
9. Seven thousand seven hundred seven _____
10. Twenty-nine thousand six hundred forty-eight _____

T 6	H 4	E 3	G 4	S 5	S 0	E 8	F 7	P 9	I 8	R 2	E 0	E 0	K 7
A 1	G 2	R 9	B 6	A 4	R 8	N 4	D 9	O 8	O 0	D 0	B 8	R 6	O 8
M 8	A 7	N 3	N 4	I 0	N 8	D 9	N 3	G 9	O 6	B 7	G 7	R 0	A 7
D 6	O 9	F 5	B 6	Y 5	T 3	E 4	R 2	I 1	N 1	S 7	U 1	N 0	A 9
N 4	D 0	Y 0	O 8	G 8	R 0	O 1	A 1	D 6	I 2	G 1	O 1	U 7	T 8
H 3	I 2	G 6	H 1	B 1	W 2	A 2	Y 6	R 2	I 6	B 8	S 5	O 4	S 3
A 2	P 1	O 4	T 4	R 8	I 9	M 0	S 7	H 8	E 1	R 6	L 2	L 4	O 4

Name _____ Date _____

Cross-Number Puzzle

Rewriting words as numbers; place value



Change each number below to its numerical form and write your answer in the appropriate across or down position.

ACROSS

1. Four thousand seven hundred three
3. Two thousand four hundred thirty-five
4. Five thousand nine
5. One hundred sixty-four thousand five hundred ninety-three
6. Six hundred four thousand five hundred ninety
7. Eighty-five thousand three hundred ninety-six
11. Five hundred forty-six thousand three hundred seventy-one
12. Three hundred forty-eight thousand seven

DOWN

1. Four hundred ninety-three thousand six hundred sixty-six
2. Fifty thousand nine hundred thirty
4. Fifty-six thousand nine hundred thirty-four
6. Six thousand four hundred fifty-one
8. Nine thousand four hundred forty-three
9. Twenty-five thousand seven hundred ninety-three
10. Eighty-one thousand two hundred forty-seven



Name _____ Date _____

ADDITION

Fact review

58 Errors



The addition grid below contains 58 errors. Check all of the answers. When you find a mistake, correct it and shade in that box. When you've finished shading the boxes with errors, the shaded grid will spell out the answer to the following riddle:

What always goes to bed with shoes on?

+	39	23	17	42	68	94	75	56	83	49	32	95	57	71	63
5	44	28	22	47	73	99	85	71	89	54	37	100	63	74	69
8	47	31	25	50	76	102	82	64	92	57	40	103	66	79	71
4	43	27	21	45	62	99	78	59	88	54	37	98	62	76	67
7	46	30	24	48	76	100	83	62	90	57	39	102	65	78	70
9	58	32	28	52	77	104	85	65	93	68	42	105	67	82	73
2	40	25	18	43	69	95	77	58	85	51	34	98	59	73	65
6	46	28	25	49	75	98	81	62	89	56	39	100	63	77	69
1	39	24	17	43	69	95	76	57	84	50	33	96	58	72	64
3	52	26	21	45	71	97	78	59	86	52	35	98	60	74	66

Name _____ Date _____

ADDITION

Break the Code

3 digits/
4 addends



Solve the addition problems below. Write the answers in the across and down spaces in the cross-number puzzle. The numbers you write in the shaded boxes show where the letters should go in the code at the bottom to answer the following question:

What word has two vowels, two consonants, and two vowels—all in a row?

▶ **ACROSS**

2.	790	4.	833	5.	300	6.	394	8.	7,972
	431		580		909		349		6,581
	865		735		635		767		2,451
+	307	+	123	+	471	+	676	+	7,632
<hr/>									

▼ **DOWN**

1.	385	2.	535	3.	888	6.	803	7.	866
	535		224		807		572		451
	712		609		830		483		675
+	649	+	758	+	826	+	767	+	628
<hr/>									

	1	O		2			E	3
4			E	B				
				5	O			K
6			P					
	E					7		
8		K						
							R	

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



Name _____ Date _____

ADDITION

4 digits/
4 addends

"Sum" Number Search



Add each problem carefully. Locate and circle the answer—the sum—in the number search below. The answers are written horizontally and vertically.

1. $5,569$	2. $8,040$	3. $5,834$	4. $3,603$
$4,376$	$4,648$	$2,468$	$3,063$
$2,007$	$3,948$	$9,354$	$9,066$
$+ 5,432$	$+ 3,205$	$+ 2,099$	$+ 9,909$

5. $7,909$	6. $7,777$	7. $5,834$	8. $5,841$
$6,430$	$6,666$	$2,468$	$2,796$
$2,058$	$5,005$	$3,690$	$7,976$
$+ 4,567$	$+ 6,090$	$+ 2,200$	$+ 9,797$

9. $3,890$	10. $5,893$	11. $3,489$	12. $3,347$
$5,009$	$2,398$	$5,003$	$9,969$
$6,246$	$5,389$	$6,070$	$7,800$
$+ 3,963$	$+ 8,477$	$+ 5,847$	$+ 7,008$

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

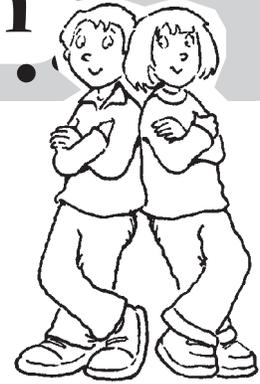


Name _____ Date _____

SUBTRACTION

4 digits

What's The Difference? Number Search



Subtract each problem carefully. Locate and circle the answer—the difference—in the number search below. The answers are written horizontally and vertically.

1. $7,906 - 4,537$ 2. $8,800 - 4,675$ 3. $14,768 - 9,794$ 4. $3,908 - 349$ 5. $6,902 - 4,768$

6. $5,903 - 3,344$ 7. $7,990 - 6,999$ 8. $14,108 - 6,394$ 9. $7,000 - 395$ 10. $5,934 - 4,376$

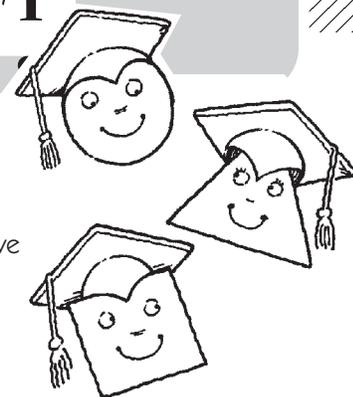
11. $7,543 - 5,097$ 12. $9,004 - 8,432$ 13. $4,567 - 3,997$ 14. $18,942 - 9,932$ 15. $5,826 - 3,455$

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

Last Number–First Number #1

Solve the following subtraction problems. Write your answers in the winding puzzle below.

Note: The last digit of each answer becomes the first digit of the next answer. Be sure to follow the arrows as you fill in the boxes, because you will have to write these answers backward: numbers 5, 6, 7, 8, 11, and 12. After you've finished the puzzle, look at the numbers you've written in the shaded boxes. Each number shows where the letter in that box should go in the code at the bottom to answer the following question:



What geometric figure never makes a mistake?

1. $\begin{array}{r} 87,643 \\ - 64,329 \\ \hline \end{array}$	2. $\begin{array}{r} 96,840 \\ - 53,477 \\ \hline \end{array}$	3. $\begin{array}{r} 59,751 \\ - 23,324 \\ \hline \end{array}$	4. $\begin{array}{r} 85,934 \\ - 13,029 \\ \hline \end{array}$	5. $\begin{array}{r} 97,091 \\ - 46,043 \\ \hline \end{array}$	6. $\begin{array}{r} 97,381 \\ - 10,049 \\ \hline \end{array}$
--	--	--	--	--	--

7. $\begin{array}{r} 77,790 \\ - 56,379 \\ \hline \end{array}$	8. $\begin{array}{r} 65,472 \\ - 50,268 \\ \hline \end{array}$	9. $\begin{array}{r} 86,790 \\ - 40,418 \\ \hline \end{array}$	10. $\begin{array}{r} 57,475 \\ - 30,149 \\ \hline \end{array}$	11. $\begin{array}{r} 94,476 \\ - 34,259 \\ \hline \end{array}$	12. $\begin{array}{r} 87,473 \\ - 12,205 \\ \hline \end{array}$
--	--	--	---	---	---

1			R ²		G		3
➔						⬇️	
	E ⁹	A					
	➔						I
8				G			4
							L
	⬆️					⬅️	
7			N ⁶	H			5 T

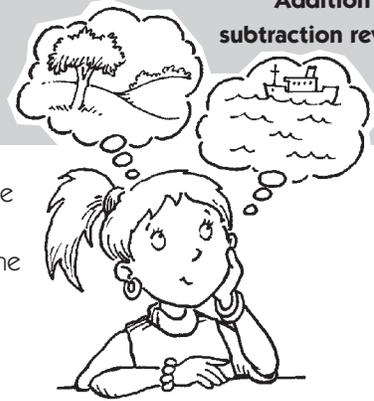
A	1	2	3	4	5	6	7	8	9	0
---	---	---	---	---	---	---	---	---	---	---

Name _____ Date _____

MIXED PRACTICE

**What's the Difference
Between Land and Sea?**

Addition and
subtraction review



To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

E	P	I	A	O
$\begin{array}{r} 5,872 \\ - 3,991 \\ \hline \end{array}$	$\begin{array}{r} 7,340 \\ + 4,663 \\ \hline \end{array}$	$\begin{array}{r} 9,304 \\ - 2,763 \\ \hline \end{array}$	$\begin{array}{r} 4,399 \\ + 7,638 \\ \hline \end{array}$	$\begin{array}{r} 5,493 \\ - 2,488 \\ \hline \end{array}$

R	N	T	M	D
$\begin{array}{r} 3,758 \\ + 9,797 \\ \hline \end{array}$	$\begin{array}{r} 6,773 \\ - 4,799 \\ \hline \end{array}$	$\begin{array}{r} 3,276 \\ + 6,723 \\ \hline \end{array}$	$\begin{array}{r} 4,000 \\ - 2,999 \\ \hline \end{array}$	$\begin{array}{r} 9,669 \\ + 7,337 \\ \hline \end{array}$

H	W	L	Y	S
$\begin{array}{r} 5,803 \\ - 4,799 \\ \hline \end{array}$	$\begin{array}{r} 4,455 \\ + 6,677 \\ \hline \end{array}$	$\begin{array}{r} 3,090 \\ - 1,909 \\ \hline \end{array}$	$\begin{array}{r} 2,435 \\ + 8,876 \\ \hline \end{array}$	$\begin{array}{r} 8,429 \\ - 7,777 \\ \hline \end{array}$

Hint:
There are some extra
problems and letters—
don't get confused!

9,999	1,004	1,881	1,181	12,037	1,974	17,006	6,541	652

				-				
17,006	6,541	13,555	9,999		11,311	12,037	1,974	17,006

9,999	1,004	1,881	652	1,881	12,037

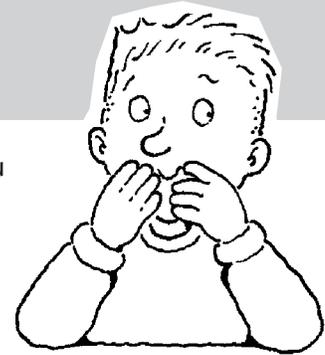
						-	
6,541	652	9,999	6,541	17,006	1,881		11,311

Name _____ Date _____

MULTIPLICATION

Facts review

59 Errors



The multiplication grid below contains 59 errors. Check all of the answers. When you find a mistake, correct it and shade in that box. When you've finished shading the boxes with errors, the shaded grid will spell out the answer to the following riddle:

**What is too much for one, enough for two,
and nothing at all for three?**

X	9	6	3	1	0	8	7	2	5	4	3	8	4	9	0	6	7	5
7	63	42	21	7	0	56	42	21	30	29	22	65	28	63	0	42	49	35
3	27	18	9	3	0	24	28	6	15	7	9	21	12	27	0	18	21	15
1	9	6	3	2	1	9	0	2	5	5	4	9	5	10	1	6	7	5
8	72	48	24	9	0	64	65	16	40	28	21	64	28	72	0	48	56	40
6	45	30	12	7	6	48	49	10	36	18	18	42	18	45	0	30	49	36
4	27	24	12	5	0	32	28	8	20	16	12	32	12	36	0	24	21	20
9	72	45	36	10	9	81	63	18	45	36	27	72	45	72	9	54	81	45
2	18	12	5	2	0	16	14	4	10	8	6	16	8	18	0	12	21	10
5	54	36	16	5	0	40	35	10	25	20	15	40	20	45	0	30	30	25

Name _____

Date _____

MULTIPLICATION

What a Mix-Up

Factors and products



Here are four mixed-up multiplication charts. Find the missing **factors** and **products** to complete these charts correctly.

X	5	8	2	6
3				
9		72		
4				
7				

X		4		
7			42	
		36		
2			12	
	40			24

Hint:

In the charts with missing factors, you'll notice some of the products lined up in rows or columns. Use your knowledge of common factors to help you see how these products are related.

X				5
		24	4	
	18			10
			8	
		18		

X				
		14		
	10			8
			18	
	50			

Name _____ Date _____

Solve the Riddle

1 digit x
3 or 4 digits



Do you know what Mary had when she went out to dinner?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

K 246
x 3

R 4,035
x 6

E 319
x 9

N 8,007
x 5

D 7,021
x 4

L 9,306
x 7

T 999
x 8

H 6,210
x 2

I 5,115
x 7

B 8,020
x 6

P 583
x 9

A 967
x 3

M 532
x 8

Y 6,039
x 9

W 826
x 5

O 3,244
x 3

5,247	2,871	9,732	5,247	65,142	2,871
-------	-------	-------	-------	--------	-------

738	40,035	9,732	4,130
-----	--------	-------	-------

4,256	2,901	24,210	54,351
-------	-------	--------	--------

12,420	2,901	28,084
--------	-------	--------

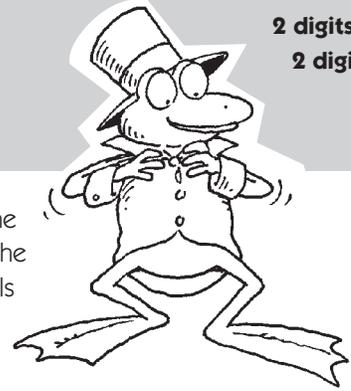
2,901

65,142	35,805	7,992	7,992	65,142	2,871
--------	--------	-------	-------	--------	-------

65,142	2,901	4,256	48,120
--------	-------	-------	--------

Match It #1

2 digits x
2 digits



Use multiplication to solve the problems below, then locate each correct answer in the column on the right. Use a ruler or a straightedge to draw a line from the question to the answer (dot to dot). Your line will pass through a number and a letter. The number tells you where to write your letter in the code boxes to answer the riddle below.

- | | | | | | | | | | | |
|---------------|--|-----------|----------|-----------|--|----------|--|----------|----------|---------|
| 1. 54 x 31 ● | | | | | | | | | | ● 4,508 |
| 2. 29 x 84 ● | | | | | | | | | | ● 2,378 |
| 3. 32 x 23 ● | | K | | 3 | | | | | O | ● 2,961 |
| 4. 49 x 92 ● | | A | | 9 | | 5 | | | | ● 1,152 |
| 5. 66 x 40 ● | | 12 | | M | | | | 6 | | ● 2,640 |
| 6. 35 x 72 ● | | | R | | | | | | R | ● 736 |
| 7. 63 x 47 ● | | 10 | | O | | | | 8 | | ● 2,166 |
| 8. 13 x 62 ● | | | | 11 | | | | 4 | | ● 1,674 |
| 9. 48 x 24 ● | | | 2 | | | | | | 7 | ● 3,528 |
| 10. 57 x 38 ● | | | C | | | N | | | 1 | ● 806 |
| 11. 82 x 29 ● | | | | I | | | | O | | ● 2,436 |
| 12. 72 x 49 ● | | | | | | | | | | ● 2,520 |

Where does a frog change its clothes?

1	2
---	---

3

4	5	6	7	8
---	---	---	---	---

9	10	11	12
---	----	----	----

Secret Code Time

Why did Godzilla eat Tokyo instead of Rome?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.



M

$$\begin{array}{r} 67 \\ \times 38 \\ \hline \end{array}$$

U

$$\begin{array}{r} 48 \\ \times 25 \\ \hline \end{array}$$

N

$$\begin{array}{r} 94 \\ \times 50 \\ \hline \end{array}$$

L

$$\begin{array}{r} 27 \\ \times 62 \\ \hline \end{array}$$

W

$$\begin{array}{r} 53 \\ \times 35 \\ \hline \end{array}$$

T

$$\begin{array}{r} 79 \\ \times 29 \\ \hline \end{array}$$

D

$$\begin{array}{r} 58 \\ \times 34 \\ \hline \end{array}$$

O

$$\begin{array}{r} 41 \\ \times 79 \\ \hline \end{array}$$

I

$$\begin{array}{r} 55 \\ \times 84 \\ \hline \end{array}$$

J

$$\begin{array}{r} 47 \\ \times 24 \\ \hline \end{array}$$

E

$$\begin{array}{r} 62 \\ \times 37 \\ \hline \end{array}$$

F

$$\begin{array}{r} 90 \\ \times 30 \\ \hline \end{array}$$

R

$$\begin{array}{r} 24 \\ \times 25 \\ \hline \end{array}$$

S

$$\begin{array}{r} 92 \\ \times 38 \\ \hline \end{array}$$

A

$$\begin{array}{r} 47 \\ \times 96 \\ \hline \end{array}$$

H

$$\begin{array}{r} 52 \\ \times 87 \\ \hline \end{array}$$

4,524 2,294

1,128 1,200 3,496 2,291

1,855 4,512 3,496

4,700 3,239 2,291

4,620 4,700

2,291 4,524 2,294

2,546 3,239 3,239 1,972

2,700 3,239 600

4,620 2,291 4,512 1,674 4,620 4,512 4,700

2,700 3,239 3,239 1,972

Last Number-First Number #2

2 digits x
3 digits



Solve the following multiplication problems. Write your answers in the winding puzzle below. **Note: The last digit of each answer becomes the first digit of the next answer.** Be sure to follow the arrows as you fill in the boxes, because you will have to write the following answers backward: numbers 5, 6, 7, 8, 11, and 12. After you've finished the puzzle, look at the numbers you've written in the shaded boxes. Each number shows where the letter in that box should go in the code at the bottom to answer this riddle:

What does the announcer say to start a flea race?

- | | | | | | |
|--|--|--|---|---|---|
| 1. $\begin{array}{r} 467 \\ \times 39 \\ \hline \end{array}$ | 2. $\begin{array}{r} 529 \\ \times 64 \\ \hline \end{array}$ | 3. $\begin{array}{r} 937 \\ \times 65 \\ \hline \end{array}$ | 4. $\begin{array}{r} 833 \\ \times 62 \\ \hline \end{array}$ | 5. $\begin{array}{r} 724 \\ \times 83 \\ \hline \end{array}$ | 6. $\begin{array}{r} 437 \\ \times 53 \\ \hline \end{array}$ |
| 7. $\begin{array}{r} 337 \\ \times 39 \\ \hline \end{array}$ | 8. $\begin{array}{r} 972 \\ \times 33 \\ \hline \end{array}$ | 9. $\begin{array}{r} 861 \\ \times 74 \\ \hline \end{array}$ | 10. $\begin{array}{r} 511 \\ \times 83 \\ \hline \end{array}$ | 11. $\begin{array}{r} 947 \\ \times 42 \\ \hline \end{array}$ | 12. $\begin{array}{r} 827 \\ \times 53 \\ \hline \end{array}$ |

1	L		O	2			W	3
➡								⬇
		9	E		10			
	➡						N	
8								4
		12		F		11		
								T
7	O			6	E		A	5
⬆				⬅				

1 2 3 , 4 5 6 , 7 8 9 0 - **G O !**

Name _____ Date _____

Addition,
subtraction, and
multiplication review

Equal Values #1



**What's the best way to
double your money?**

Solve all the problems in both sets of boxes. Each answer in the top boxes matches an answer in the bottom boxes. Discover the answer to the question above by writing each word from the top set of boxes in the box below with the matching answer. One example has been done for you.

82 x 3 = 246 IF	25 x 5 = BUT	44 x 6 = IT	74 x 3 = IT	22 x 8 = FIND
18 x 8 = IT	33 x 3 = IF	51 x 2 = AGAIN	69 x 7 = YOU	84 x 5 = BILL
58 x 5 = FOLD	30 x 3 = DOUBLE	80 x 3 = YOU'LL	16 x 4 = YOU	70 x 3 = INCREASES
24 x 9 = UP	19 x 5 = OPEN	48 x 1 = THE	78 x 2 = YOU	15 x 3 = FIVE-DOLLAR

11 x 9 = _____	8 x 8 = _____	29 x 10 = _____	12 x 4 = _____	5 x 9 = _____
60 x 7 = _____,	500 - 17 = _____	45 x 2 = _____	259 - 37 = _____.	150 - 25 = _____
41 x 6 = 246 if	39 x 4 = _____	70 + 25 = _____	12 x 12 = _____	72 x 3 = _____
17 x 6 = _____,	60 x 4 = _____	44 x 4 = _____	66 x 4 = _____	42 x 5 = _____.

1-digit divisors/
3-digit
quotient

Did You Hear? Riddles



Did you hear ...
about your muscles? NEVER MIND —

122	54	442	588	686	69	54	69	123	521	55	442	468	.

about the rotten pudding? NEVER MIND —

681	69	55	38	69	55	686	222	655	54	.
442	38	588	686	232	69	38	515	54	.	.

To decode these jokes, complete the division problems below and locate the answers in the code boxes below the riddles. Write the letter from the problem above the matching answer in each code box. If the answer appears in more than one code box, fill in each one with the same letter.

W

$$5 \overline{) 190}$$

O

$$7 \overline{) 483}$$

D

$$4 \overline{) 888}$$

L

$$2 \overline{) 1,372}$$

T

$$8 \overline{) 432}$$

M

$$6 \overline{) 3,126}$$

Y

$$9 \overline{) 6,129}$$

H

$$3 \overline{) 1,404}$$

S

$$6 \overline{) 2,652}$$

A

$$2 \overline{) 1,176}$$

F

$$9 \overline{) 1,107}$$

U

$$5 \overline{) 275}$$

N

$$3 \overline{) 1,965}$$

I

$$7 \overline{) 3,605}$$

L

$$4 \overline{) 928}$$

I

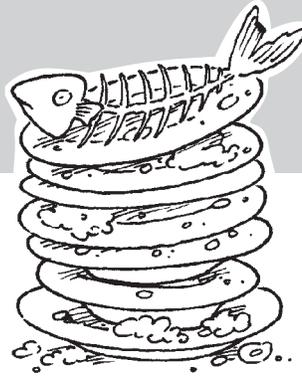
$$8 \overline{) 976}$$

Name _____ Date _____

DIVISION

Remainders

1-digit divisors/
3-digit quotient



Solve the division problems below. Each answer has a remainder.
Write the remainder **in words** in the puzzle below. The clue above the problem tells you where the remainder should go.

1 ACROSS

$$9 \overline{) 708}$$

1 DOWN

$$8 \overline{) 743}$$

2 ACROSS

$$7 \overline{) 341}$$

2 DOWN

$$5 \overline{) 249}$$

3 ACROSS

$$8 \overline{) 555}$$

3 DOWN

$$5 \overline{) 452}$$

4 DOWN

$$9 \overline{) 611}$$

5 ACROSS

$$8 \overline{) 713}$$

6 ACROSS

$$5 \overline{) 192}$$

7 ACROSS

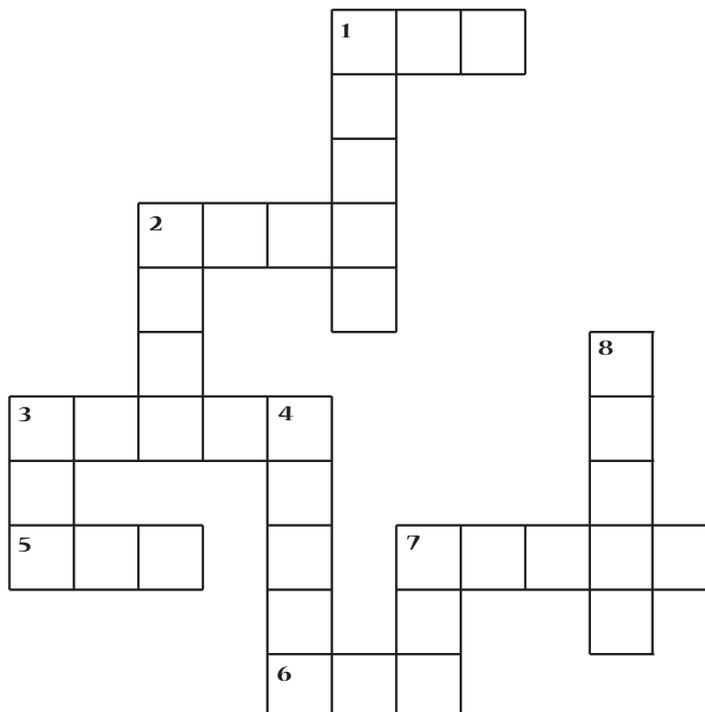
$$7 \overline{) 675}$$

7 DOWN

$$9 \overline{) 587}$$

8 DOWN

$$8 \overline{) 711}$$



1-digit divisors/
4-digit
quotient

Match It #2



Use division to solve the problems below, then locate each correct answer in the column on the right. Use a ruler or a straightedge to draw a line from the question to the answer (dot to dot). Your line will pass through a number and a letter. The number tells you where to write your letter in the code boxes to answer the riddle below.

- | | | | | | | | | | | |
|--------------------|---|--|---|---|---|---|---|---|--|-------|
| 1. $5,247 \div 9$ | ● | | | | | | | | | ● 949 |
| 2. $1,230 \div 5$ | ● | | | | | | | | | ● 560 |
| 3. $2,712 \div 8$ | ● | | 3 | | 8 | | | | | ● 226 |
| 4. $2,847 \div 3$ | ● | | | | | O | | | | ● 415 |
| 5. $2,658 \div 6$ | ● | | | N | | | 7 | | | ● 339 |
| 6. $818 \div 2$ | ● | | | | | | | | | ● 443 |
| 7. $3,920 \div 7$ | ● | | | R | | E | | 5 | | ● 764 |
| 8. $1,200 \div 4$ | ● | | | | | | | 9 | | ● 793 |
| 9. $6,112 \div 8$ | ● | | 2 | | | | | | | ● 583 |
| 10. $1,356 \div 6$ | ● | | | Y | | T | | | | ● 300 |
| 11. $7,137 \div 9$ | ● | | | | | | | | | ● 409 |
| 12. $2,075 \div 5$ | ● | | | | | | | | | ● 246 |

What do you give a seasick elephant?

1	2	3	4	5	6
---	---	---	---	---	---

7	8
---	---

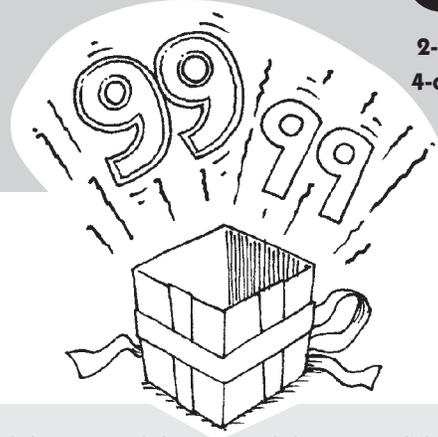
9	10	11	12
---	----	----	----

Name _____ Date _____

DIVISION

99s

2-digit divisors/
4-digit quotient



The divisor in all nine of the following problems is 99. The multiples of 99, from 0 to 9, are listed in the box below. Check your final answer against the correct answers in the answer box.

$\begin{array}{r} 99 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 99 \\ \times 1 \\ \hline 99 \end{array}$	$\begin{array}{r} 99 \\ \times 2 \\ \hline 198 \end{array}$	$\begin{array}{r} 99 \\ \times 3 \\ \hline 297 \end{array}$	$\begin{array}{r} 99 \\ \times 4 \\ \hline 396 \end{array}$	$\begin{array}{r} 99 \\ \times 5 \\ \hline 495 \end{array}$	$\begin{array}{r} 99 \\ \times 6 \\ \hline 594 \end{array}$	$\begin{array}{r} 99 \\ \times 7 \\ \hline 693 \end{array}$	$\begin{array}{r} 99 \\ \times 8 \\ \hline 792 \end{array}$	$\begin{array}{r} 99 \\ \times 9 \\ \hline 891 \end{array}$
---	--	---	---	---	---	---	---	---	---

1. $99 \overline{) 2,307}$

2. $99 \overline{) 5,592}$

3. $99 \overline{) 7,060}$

4. $99 \overline{) 6,378}$

5. $99 \overline{) 3,680}$

6. $99 \overline{) 8,764}$

7. $99 \overline{) 4,890}$

8. $99 \overline{) 5,666}$

9. $99 \overline{) 7,548}$

ANSWER BOX

37 r 17

41 r 14

88 r 52

71 r 31

49 r 39

23 r 30

64 r 42

57 r 23

56 r 48

62 r 26

76 r 24

39 r 39

Hint:

Some problems have remainders that may be longer than the two digit remainders given in the answer boxes.

2-digit divisors/
4-digit quotient

MORE

Did You Hear? Riddles



Did you hear ...

about the rotten food? NEVER MIND—

83	68
----	----

68	20	22	66	38
----	----	----	----	----

43	40
----	----

38	68	41	43	75	35	86
----	----	----	----	----	----	----

about the chef who dropped the egg? NEVER MIND—

83	68
----	----

35	22	75	39	80	38
----	----	----	----	----	----

43	21
----	----

20	13
----	----

To decode these jokes, complete the division problems below and locate the answers in the code boxes below the riddles. Write the letter from the problem above the matching answer in each code box. If the answer appears in more than one code box, fill in each one with the same letter.

P $64 \overline{) 832}$

A $27 \overline{) 2,025}$

T $70 \overline{) 4,760}$

H $15 \overline{) 1,290}$

R $48 \overline{) 1,056}$

O $98 \overline{) 4,018}$

U $20 \overline{) 400}$

K $43 \overline{) 3,440}$

Y $52 \overline{) 2,080}$

I $22 \overline{) 1,826}$

M $42 \overline{) 1,806}$

C $11 \overline{) 385}$

S $74 \overline{) 2,812}$

C $84 \overline{) 3,276}$

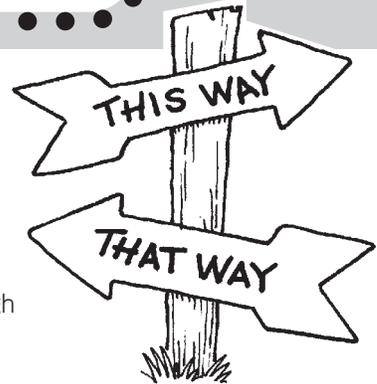
E $77 \overline{) 1,617}$

N $55 \overline{) 3,630}$

Follow the Arrows #1

Addition, subtraction, multiplication, and division review

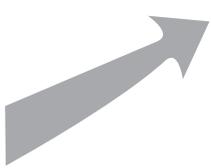
Begin at the . Solve the addition problem and write your answer in the box directly below it. Follow the arrow to the next box and copy your answer from the first box. Solve the next problem, follow the arrow, and copy your new answer in the next open box. Continue to solve the problems, copying each answer into the next box indicated by the arrow. When you've finished the puzzle correctly, your final answer should be the exact number needed to solve the final problem. Go on to the second puzzle and follow the same steps you used to work your way through the first one!




$$\begin{array}{r} 5,934 \\ 2,202 \\ 7,864 \\ 2,135 \\ + 796 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ - 14,473 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ 2 \overline{) } \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{842} \\ \hline 5 \overline{) } \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ - 6,935 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ \times 5 \\ \hline \end{array}$$


$$\begin{array}{r} 6,489 \\ 7,351 \\ 4,007 \\ + 6,397 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ - 23,793 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{} \\ - 12,375 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ \times 54 \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{} \\ - 41,375 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{} \\ 6 \overline{) } \\ \hline \end{array}$$
 
$$\begin{array}{r} \boxed{5,551} \end{array}$$

Hint:
As you work through these problems, check your answers by using the reverse operation.
For example: $54 \times 3 = 162$
check: $162 \div 3 = 54$

Name _____ Date _____

MIXED PRACTICE

Links

Addition, subtraction,
multiplication, and
division review



Solve each problem by working from left to right. When you finish a problem, locate the answer in a box below, then write the letter above the answer. If the answer appears in more than one box, fill in each one with the same letter.

- Take **48** → Multiply by **8** → Subtract **64** → Divide **4** = _____ = **N**
- Take **408** → Add **72** → Divide by **5** → Subtract **19** = _____ = **A**
- Take **937** → Subtract **83** → Divide by **7** → Multiply by **9** = _____ = **D**
- Take **396** → Divide by **6** → Add **48** → Subtract **78** = _____ = **S**
- Take **407** → Add **49** → Divide by **4** → Subtract **70** = _____ = **L**
- Take **596** → Multiply by **9** → Subtract **64** → Divide by **5** = _____ = **B**
- Take **486** → Divide by **6** → Add **40** → Multiply by **7** = _____ = **G**
- Take **784** → Subtract **229** → Divide by **5** → Add **72** = _____ = **U**
- Take **420** → Add **777** → Subtract **42** → Divide by **5** = _____ = **Y**
- Take **92** → Multiply by **8** → Subtract **1** → Divide by **7** = _____ = **O**

What strange children live in the ocean?

1,060	183	105	231	36

77	80	1,098

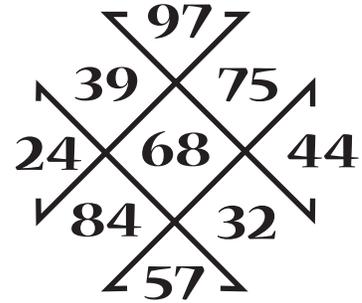
847	183	44	44	36

Shapely Math #1

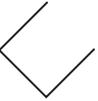
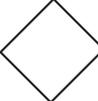
Addition, subtraction,
multiplication, and
division review

Study the shapes in equations 1–6.
Each shape has only one match in the
number grids. Use the shapes to fill in
the missing numbers in the equations.
Solve each number sentence. Check
your answers against the scrambled
answers in the Answer Box.

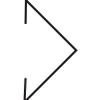
63	87	35
48	22	74
57	91	46



1. ( x  44) ÷ ( 68 - ) = _____

2. ( x ) ÷ ( - ) = _____

3. ( x ) ÷ ( - ) = _____

4. ( x ) ÷ ( - ) = _____

5. ( x ) ÷ ( - ) = _____

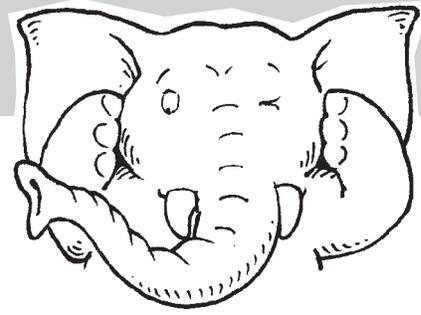
6. ( x ) ÷ ( - ) = _____

ANSWER BOX

- | | | |
|---------|---------|---------|
| 394 r 4 | 507 | 461 r 4 |
| 768 | 550 | 192 |
| 422 r 2 | 35 r 40 | 1323 |

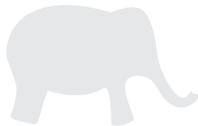
Name _____ Date _____

Elephant Trivia



Why did the elephant cross the road?

Solve the problems below. Locate your answer in the code boxes and write the letter from the matching problem above it. If the answer appears in more than one box, fill in each one with the same letter.

J = $(5 \times 6) + (6 \times 3) + (4 \times 9)$ = 	W = $(4 \times 9) + (9 \times 9) + (6 \times 7)$ = 
L = $(2 \times 8) + (8 \times 6) + (7 \times 3)$ = 	K = $(1 \times 9) + (7 \times 8) + (2 \times 8)$ = 
O = $(5 \times 7) + (6 \times 9) + (3 \times 5)$ = 	E = $(5 \times 5) + (5 \times 7) + (6 \times 5)$ = 
D = $(3 \times 8) + (6 \times 4) + (2 \times 12)$ = 	N = $(4 \times 8) + (9 \times 0) + (8 \times 4)$ = 
I = $(4 \times 8) + (9 \times 5) + (9 \times 4)$ = 	H = $(3 \times 3) + (4 \times 4) + (5 \times 5)$ = 
T = $(6 \times 6) + (4 \times 7) + (3 \times 9)$ = 	A = $(3 \times 7) + (4 \times 7) + (7 \times 9)$ = 
S = $(9 \times 7) + (9 \times 6) + (8 \times 6)$ = 	R = $(8 \times 8) + (7 \times 7) + (6 \times 6)$ = 

50	90	72	113	72	64	91	159	112	64	91	
91	104	50	90	112	149	91	50	112	91		
85	112	165	91	84	104	81	90				

Riddle Time



What has 500 teeth and says "Beware of Dog"?

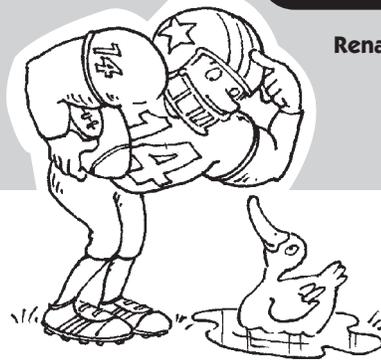
Solve the problems below. Locate your answer in the code boxes and write the letter from the matching problem above it. If the answer appears in more than one box, fill in each one with the same letter.

$(5 \times 9) + 3 = \mathbf{T}$	$\mathbf{T} =$	$(\mathbf{K} \times 7) + 5 = 54$	$\mathbf{K} =$
$(3 \times 9) + 7 = \mathbf{G}$	$\mathbf{G} =$	$(5 \times 5) + 6 = \mathbf{C}$	$\mathbf{C} =$
$(7 \times 4) + 8 = \mathbf{E}$	$\mathbf{E} =$	$(\mathbf{H} \times 8) + 3 = 75$	$\mathbf{H} =$
$(\mathbf{A} \times 6) + 4 = 40$	$\mathbf{A} =$	$(4 \times 8) + 8 = \mathbf{N}$	$\mathbf{N} =$
$(8 \times 8) + 4 = \mathbf{F}$	$\mathbf{F} =$	$(\mathbf{S} \times 6) + 5 = 53$	$\mathbf{S} =$
$(\mathbf{W} \times 9) + 8 = 53$	$\mathbf{W} =$	$(4 \times 4) + 9 = \mathbf{P}$	$\mathbf{P} =$
$(6 \times 4) + 9 = \mathbf{I}$	$\mathbf{I} =$	$(9 \times 2) + 8 = \mathbf{O}$	$\mathbf{O} =$

6	25	33	31	7	36	48		
68	36	40	31	36	5	33	48	9
6	8	33	34	40	26	40	33	48

Equal Values #2

Renaming and reducing fractions



What is the difference between a football player and a duck?

Change the improper fractions in the top boxes to mixed numerals in their simplest form. Then match each answer in the top boxes to an equivalent mixed numeral, expressed in words, in the bottom boxes. Discover the answer to the question above by writing each word from the top set of boxes in the box below with the matching answer. One example has been done for you.

$\frac{5}{3} =$ DUCK	$\frac{14}{10} = 1\frac{4}{10} = 1\frac{2}{5}$ A	$\frac{9}{6} =$ PUDDLE	$\frac{8}{5} =$ BUT
$\frac{13}{8} =$ HUDDLE	$\frac{17}{14} =$ A	$\frac{7}{4} =$ PLAYER	$\frac{17}{12} =$ IN
$\frac{12}{7} =$ IN	$\frac{10}{8} =$ FOOTBALL	$\frac{9}{4} =$ FOUND	$\frac{11}{6} =$ IS
$\frac{9}{7} =$ A	$\frac{5}{2} =$ A	$\frac{12}{9} =$ IS	$\frac{13}{12} =$ FOUND

one and two fifths = <u> A </u>	one and one fourth = _____	one and three fourths = _____	one and one third = _____
one and one twelfth = _____	one and five sevenths = _____	two and one half = _____	one and five eighths = _____ ,
one and three fifths = _____	one and two sevenths = _____	one and two thirds = _____	one and five sixths = _____
two and one fourth = _____	one and five twelfths = _____	one and three fourteenths = _____	one and one half = _____ .

Name _____

Date _____

FRACTIONS

A Sharp Riddle

Addition with unlike denominators



If two vampires had a race, who would win?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Remember to reduce fractions when necessary. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

D $\frac{2}{3} + \frac{2}{4} =$	E $\frac{4}{6} - \frac{1}{3} =$	F $\frac{3}{4} - \frac{2}{5} =$	S $\frac{1}{6} + \frac{3}{9} =$
T $\frac{4}{5} - \frac{1}{2} =$	O $\frac{3}{2} + \frac{2}{3} =$	R $\frac{2}{3} + \frac{5}{8} =$	Y $\frac{5}{6} - \frac{3}{5} =$
I $\frac{3}{9} + \frac{1}{2} =$	H $\frac{3}{4} - \frac{5}{10} =$	L $\frac{2}{4} + \frac{5}{6} =$	C $\frac{5}{6} - \frac{3}{8} =$
U $\frac{4}{5} - \frac{2}{3} =$	K $\frac{3}{4} + \frac{2}{3} =$	W $\frac{6}{7} - \frac{2}{3} =$	N $\frac{1}{2} + \frac{3}{7} =$

$\frac{13}{14}$	$\frac{1}{3}$	$\frac{5}{6}$	$\frac{3}{10}$	$\frac{1}{4}$	$\frac{1}{3}$	$1\frac{7}{24}$

$\frac{3}{10}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{7}{30}$

$\frac{4}{21}$	$2\frac{1}{6}$	$\frac{2}{15}$	$1\frac{1}{3}$	$1\frac{1}{6}$

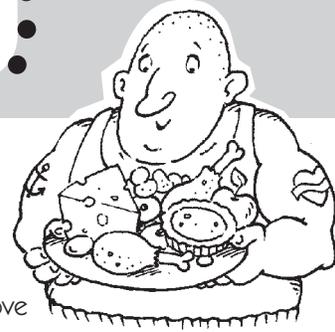
$\frac{7}{20}$	$\frac{5}{6}$	$\frac{13}{14}$	$\frac{5}{6}$	$\frac{1}{2}$	$\frac{1}{4}$

$\frac{13}{14}$	$\frac{1}{3}$	$\frac{11}{24}$	$1\frac{5}{12}$

$\frac{5}{6}$	$\frac{13}{14}$

$\frac{13}{14}$	$\frac{1}{3}$	$\frac{11}{24}$	$1\frac{5}{12}$

Wrestle the Code



What did the wrestler say when he sat down to eat at the buffet?

Solve the problems below. Remember to reduce fractions when necessary. Locate your answer in the code boxes and write the letter from the matching problem above it. If the answer appears in more than one box, fill in each one with the same letter.

$\left(\frac{2}{8} + \frac{3}{8}\right) - \frac{1}{8} = \quad = \quad \mathbf{E}$	$\frac{7}{8} - \left(\frac{9}{8} - \frac{8}{8}\right) = \quad = \quad \mathbf{A}$
$\frac{5}{6} - \left(\frac{2}{6} + \frac{1}{6}\right) = \quad = \quad \mathbf{D}$	$\left(\frac{2}{3} + \frac{6}{3}\right) - \frac{1}{3} = \quad = \quad \mathbf{R}$
$\left(\frac{8}{9} - \frac{4}{9}\right) + \frac{2}{9} = \quad = \quad \mathbf{T}$	$\frac{12}{6} - \left(\frac{5}{6} + \frac{6}{6}\right) = \quad = \quad \mathbf{O}$
$\frac{4}{5} + \left(\frac{3}{5} - \frac{1}{5}\right) = \quad = \quad \mathbf{S}$	$\frac{5}{4} + \left(\frac{7}{4} - \frac{3}{4}\right) = \quad = \quad \mathbf{W}$
$\left(\frac{2}{7} + \frac{6}{7}\right) - \frac{1}{7} = \quad = \quad \mathbf{Y}$	$\left(\frac{4}{9} + \frac{7}{9}\right) + \frac{1}{9} = \quad = \quad \mathbf{N}$
$\frac{11}{2} - \left(\frac{3}{2} + \frac{5}{2}\right) = \quad = \quad \mathbf{I}$	$\left(\frac{9}{5} + \frac{9}{5}\right) - \frac{3}{5} = \quad = \quad \mathbf{L}$
$\left(\frac{4}{3} + \frac{6}{3}\right) - \frac{5}{3} = \quad = \quad \mathbf{H}$	$\left(\frac{6}{7} - \frac{4}{7}\right) + \frac{4}{7} = \quad = \quad \mathbf{F}$

$$\frac{9}{9} - \left(\frac{2}{9} + \frac{2}{9}\right) = \quad = \quad \mathbf{G}$$

$1\frac{1}{2}$	$2\frac{1}{3}$ $\frac{1}{2}$ $\frac{3}{4}$ 3 3 1	$\frac{1}{3}$ $\frac{1}{6}$ $1\frac{1}{3}$ $\frac{2}{3}$	$2\frac{1}{4}$ $\frac{3}{4}$ $1\frac{1}{3}$ $\frac{2}{3}$
	$\frac{3}{4}$ 3 3	$\frac{2}{3}$ $1\frac{2}{3}$ $1\frac{1}{2}$ $1\frac{1}{5}$	$\frac{6}{7}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{3}$
$\frac{2}{3}$ $\frac{1}{6}$	$\frac{5}{9}$ $\frac{1}{6}$	$\frac{2}{3}$ $\frac{1}{6}$	$2\frac{1}{4}$ $\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{1}{5}$ $\frac{2}{3}$

Name _____

Date _____

DECIMALS

Decimal Match

Equivalent fractions
and decimals

Hint:

Write the
expression
as a fraction first!

For example: $7/10 = 0.7$

Write the answer to each decimal expression in the space provided. Find your answer in one of the boxes at the bottom of the page. In the correct box, write the word that matches your answer. Once you have filled in all the boxes, you will discover the answer to the following riddle:



How do we know football referees are happy?

- | | | | | | | |
|----------------------------------|---|-------|---|-------|---|----------|
| 1. Three tenths | = | _____ | = | _____ | = | Happy |
| 2. Thirteen and one thousandth | = | _____ | = | _____ | = | Know |
| 3. Four and four hundredths | = | _____ | = | _____ | = | Are |
| 4. Seven and fifteen thousandths | = | _____ | = | _____ | = | Always |
| 5. Thirteen and one hundredth | = | _____ | = | _____ | = | While |
| 6. Four and four thousandths | = | _____ | = | _____ | = | They |
| 7. Three hundredths | = | _____ | = | _____ | = | Referees |
| 8. Thirteen and one tenth | = | _____ | = | _____ | = | They |
| 9. Four and forty thousandths | = | _____ | = | _____ | = | We |
| 10. Thirteen and ten hundredths | = | _____ | = | _____ | = | Work |
| 11. Four and four tenths | = | _____ | = | _____ | = | Because |
| 12. Seven and fifteen hundredths | = | _____ | = | _____ | = | Whistle |

4.040	13.001	0.03	4.04
0.3	4.4	4.004	7.015
7.15	13.01	13.1	13.10 .

Follow the Arrows #2



Begin at the ★. Solve the addition problem and write your answer in the box directly below it. Follow the arrow to the next box and copy your answer from the first box. Solve the next problem, follow the arrow, and copy your new answer in the next open box. Continue to solve the problems, copying each answer into the next box indicated by the arrow. When you've finished the puzzle correctly, your final answer should be the exact number needed to solve the final problem. Go on to the second puzzle and follow the same steps you used to work your way through the first one!

★
$$\begin{array}{r} 63.27 \\ .359 \\ 4.226 \\ 43.3 \\ + 47.356 \\ \hline \end{array}$$

$$\begin{array}{r} \\ - 94.076 \\ \hline \end{array}$$

$$\begin{array}{r} \\ - 59.735 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \times 4 \\ \hline 9.4 \end{array}$$

$$5 \overline{) }$$

$$ \times 2.5$$

Hint:
As you work through these problems, check your answers by using the reverse operation.

For example:
 $2.03 + 34.2 = 36.23$
Check:
 $36.23 - 34.2 = 2.03$

★
$$\begin{array}{r} 3.4 \\ 563.0 \\ .345 \\ 22.22 \\ + 6.8 \\ \hline \end{array}$$

$$\begin{array}{r} \\ - 591.320 \\ \hline \end{array}$$

$$ \times 6$$

$$\begin{array}{r} \\ - 19.02 \\ \hline \end{array}$$

$$5 \overline{) }$$

$$ \times 6.6$$

$$ - 9.999$$

0.099

Coded Riddle

2 x 3-digit multiplication



Why did the doughnut makers finally close their shop?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each box with the same letter.

F

$$\begin{array}{r} 0.38 \\ \times 29 \\ \hline \end{array}$$

L

$$\begin{array}{r} 87 \\ \times 0.9 \\ \hline \end{array}$$

B

$$\begin{array}{r} 584 \\ \times 0.6 \\ \hline \end{array}$$

S

$$\begin{array}{r} 4.38 \\ \times 29 \\ \hline \end{array}$$

H

$$\begin{array}{r} 5.05 \\ \times 87 \\ \hline \end{array}$$

R

$$\begin{array}{r} 0.87 \\ \times 38 \\ \hline \end{array}$$

E

$$\begin{array}{r} 7.37 \\ \times 43 \\ \hline \end{array}$$

Y

$$\begin{array}{r} 49.4 \\ \times 76 \\ \hline \end{array}$$

I

$$\begin{array}{r} 3.77 \\ \times 65 \\ \hline \end{array}$$

P

$$\begin{array}{r} 594 \\ \times 6.6 \\ \hline \end{array}$$

D

$$\begin{array}{r} 3.39 \\ \times 93 \\ \hline \end{array}$$

W

$$\begin{array}{r} 77.7 \\ \times 48 \\ \hline \end{array}$$

N

$$\begin{array}{r} 43.7 \\ \times 38 \\ \hline \end{array}$$

U

$$\begin{array}{r} 562 \\ \times 8.4 \\ \hline \end{array}$$

O

$$\begin{array}{r} 2.24 \\ \times 68 \\ \hline \end{array}$$

T

$$\begin{array}{r} 39.7 \\ \times 78 \\ \hline \end{array}$$

3,096.6	439.35	316.91	3,754.4
---------	--------	--------	---------

3,729.6	316.91	33.06	316.91
---------	--------	-------	--------

11.02	316.91	315.27
-------	--------	--------

4,720.8	3,920.4
---------	---------

3,729.6	245.05	3,096.6	439.35
---------	--------	---------	--------

3,096.6	439.35	316.91
---------	--------	--------

439.35	152.32	78.3	316.91
--------	--------	------	--------

350.4	4,720.8	127.02	245.05	1,660.6	316.91	127.02	127.02
-------	---------	--------	--------	---------	--------	--------	--------

Name _____ Date _____

Multiple step operations

Decimal Fun



Solve each problem by working from left to right. When you finish a problem, locate the answer in a box below, then write the letter above the answer. If the answer appears in more than one box, fill in each one with the same letter.

- Take 47 → Subtract 6.55 → Add 0.22 → Multiply by 0.7 = _____ = **R**
- Take 8.63 → Add 26.4 → Multiply by 35 → Subtract 16.5 = _____ = **T**
- Take 13.779 → Multiply by 8 → Subtract 4.662 → Add 39.44 = _____ = **N**
- Take 58.2 → Add 66.489 → Subtract 123.457 → Add 8 = _____ = **S**
- Take 5.5 → Add 4.505 → Multiply by 7 → Subtract 20 = _____ = **C**
- Take 2.2 → Multiply by 8.4 → Subtract 1.477 → Add 0.33 = _____ = **D**
- Take 589 → Subtract 9.87 → Multiply by 0.4 → Add 0.048 = _____ = **H**
- Take 22.2 → Add 9.8 → Multiply by 6.5 → Subtract 0.65 = _____ = **I**
- Take 88.8 → Multiply by 0.4 → Subtract 15.32 → Add 50.8 = _____ = **E**
- Take 799 → Subtract 763.4 → Add 8.4 → Multiply by 9 = _____ = **G**

Why did the hen always lift eggs?

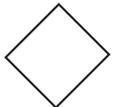
9.232	231.7	71		145.01	71	71	17.333	71	17.333		
				1,209.55			231.7		71		
71				—				71			
396								28.469			
396								50.035			
9.232								207.35			
								9.232			
								71			

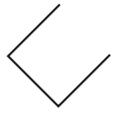
Shapely Math #2

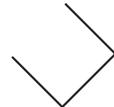
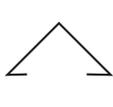
Study the shapes in equations 1–6. Each shape has only one match in the number grids. Use the shapes to fill in the missing numbers in the equations. Solve each number sentence. Check your answers against the scrambled answers in the Answer Box.

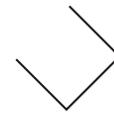
66	6.38	.007
4.3	84.1	.407
35.4	4.01	6.7

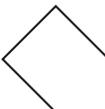
24.9	.072
99.1	8.3
7.7	5.2
948	6.34
6.01	

1. ( -  4.01) + (35.4  - ) =

2. ( - ) + ( - ) =

3. ( - ) + ( - ) =

4. ( - ) + ( - ) =

5. ( - ) + ( - ) =

6. ( - ) + ( - ) =

ANSWER BOX

593.6	69.3	953.926
16.0	30.49	11.34
1.665	18.66	33.47

No Kidding!



What's the tallest building in town?

Solve the problems below. Locate your answer in the code boxes and write the letter from the matching problem above it. If the answer appears in more than one box, fill in each one with the same letter.

$(0.5 \times 3) + 0.3 = C$ **C** = _____ $(S \times 0.9) + 0.2 = 4.7$ **S** = _____

$(6 \times 0.3) + 2.5 = M$ **M** = _____ $(0.7 \times 0.7) + 0.12 = E$ **E** = _____

$(8 \times 0.6) + R = 5.0$ **R** = _____ $(2.2 \times 4) + 0.7 = A$ **A** = _____

$(0.3 \times 0.3) + 0.23 = H$ **H** = _____ $(8 \times 0.7) + L = 6.3$ **L** = _____

$(7 \times 7) + I = 49.3$ **I** = _____ $(0.4 \times 0.8) + 0.07 = Y$ **Y** = _____

$(0.4 \times B) + 0.03 = 0.19$ **B** = _____ $(0.9 \times 0.5) + O = 0.49$ **O** = _____

$(9 \times 0.3) + U = 3.5$ **U** = _____ $(T \times 0.9) + 0.4 = 7.6$ **T** = _____

8	0.32	0.61
---	------	------

0.7	0.3	0.4	0.2	9.5	0.2	0.39
-----	-----	-----	-----	-----	-----	------

0.4	0.61	1.8	9.5	0.8	5	0.61
-----	------	-----	-----	-----	---	------

0.3	8
-----	---

0.32	9.5	5
------	-----	---

8	0.32	0.61
---	------	------

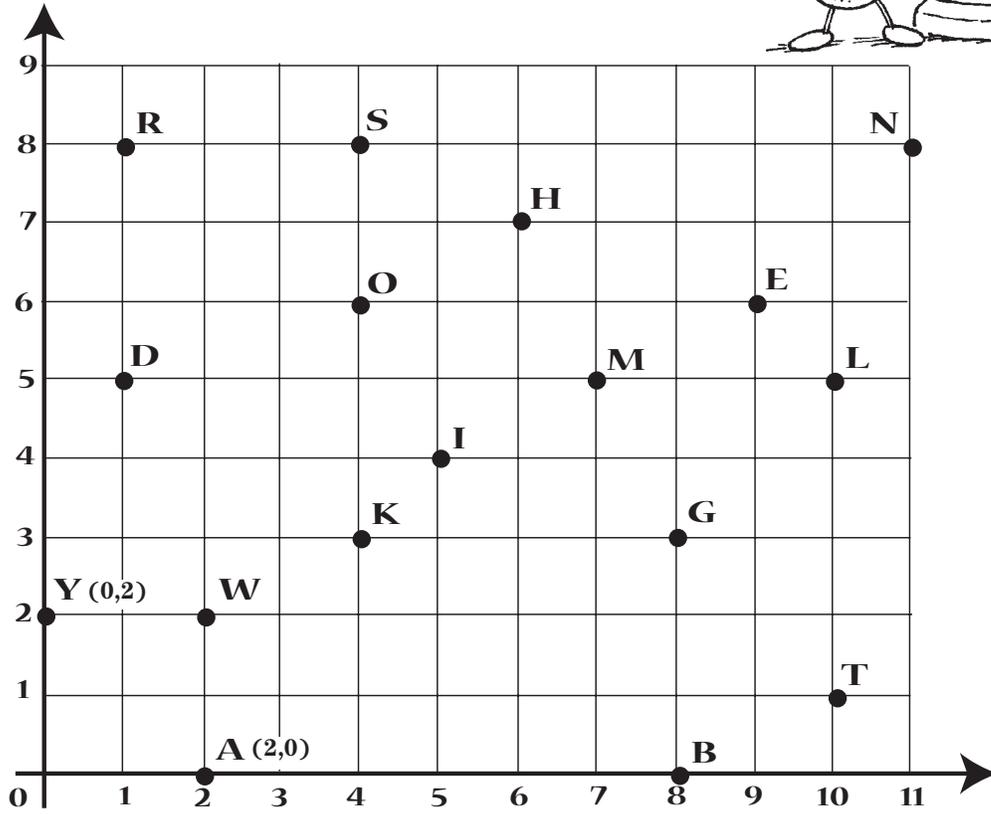
4.3	0.04	5	8
-----	------	---	---

5	8	0.04	0.2	0.3	0.61	5
---	---	------	-----	-----	------	---

Hidden Question and Answer #1

Locating
ordered
pairs

Read the ordered pairs (for example, 0,2) listed in the code boxes below. Find the letter of the alphabet that names each point given. Write the correct letter in the box above the ordered pair. Reveal a hidden question and answer.



Question

(2,2)	(6,7)	(2,0)	(10,1)

(1,5)	(5,4)	(1,5)

(10,1)	(6,7)	(9,6)

(9,6)	(8,3)	(8,3)

(4,8)	(2,0)	(0,2)

(10,1)	(4,6)

(10,1)	(6,7)	(9,6)

(8,0)	(10,5)	(9,6)	(11,8)	(1,5)	(9,6)	(1,8)



Answer

(5,4)	(4,3)	(11,8)	(4,6)	(2,2)

(2,2)	(6,7)	(9,6)	(11,8)

(5,4)	(7,5)

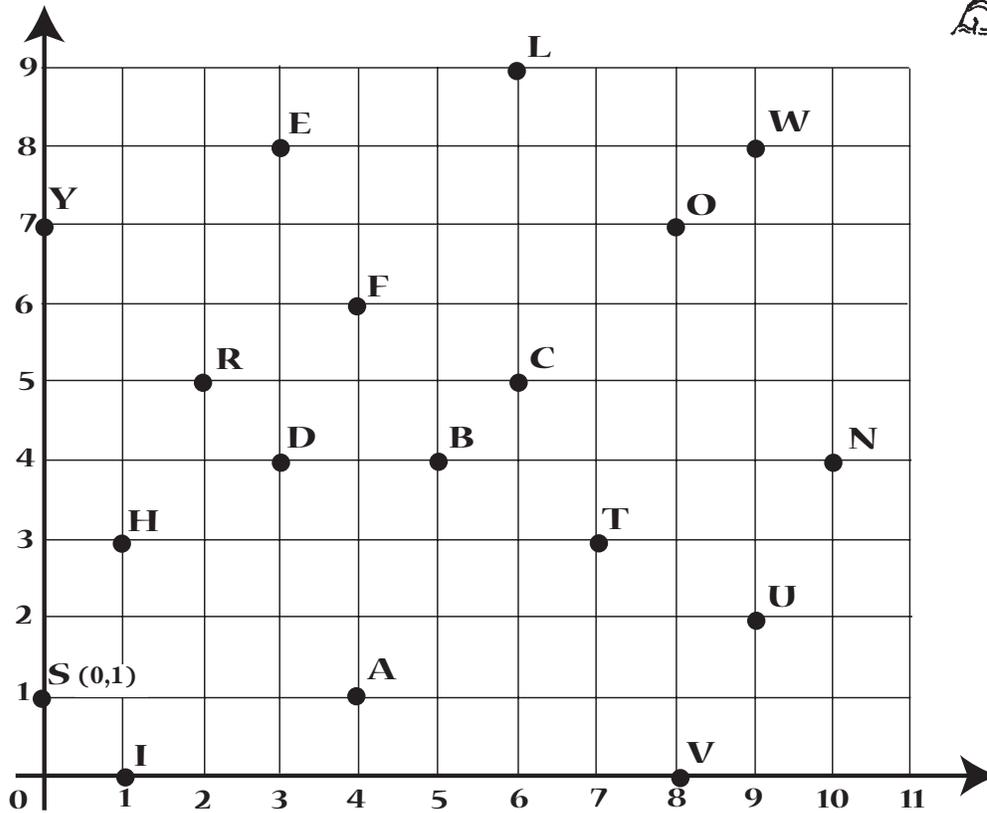
(8,0)	(9,6)	(2,0)	(10,1)	(9,6)	(11,8)

Locating
ordered pairs

Hidden Question and Answer #2



Read the ordered pairs (for example, 0,1) listed in the code boxes below. Find the letter of the alphabet that names each point given. Write the correct letter in the box above the ordered pair. Reveal a hidden question and answer.



Question

(9,8)	(1,3)	(4,1)	(7,3)

(1,0)	(0,1)

(7,3)	(1,3)	(3,8)

(5,4)	(3,8)	(0,1)	(7,3)

(6,5)	(9,2)	(2,5)	(3,8)

(4,6)	(8,7)	(2,5)

(3,4)	(8,7)	(9,2)	(5,4)	(6,9)	(3,8)

(8,0)	(1,0)	(0,1)	(1,0)	(8,7)	(10,4)

?

Answer

(0,1)	(1,3)	(9,2)	(7,3)

(8,7)	(10,4)	(3,8)

(3,8)	(0,7)	(3,8)

Name _____ Date _____

TIME

A Timely Puzzle



Converting
hours,
minutes,
and seconds

Write the answer to each problem in the space provided. Locate your answer in the boxes below, then write the word that is next to your answer in that box. Continue answering all the questions until you have decoded the following riddle:

Why did the downhill skier wear just one boot?

- If you fall asleep at 9:15 P.M. and you wake up at 9:15 A.M., how many minutes did you sleep? = _____ = **That**
- If it's 6:15 A.M., what will the time be 46 minutes later? = _____ = **The**
- A diver holds his breath for 186 seconds. How many minutes and seconds is that? = _____ = **The**
- Mom's commute to work takes 46 minutes and she arrives at work at 8:20 A.M. When did she leave home? = _____ = **One**
- You leave the house at 8:12 A.M. and arrive at school at 8:31 A.M. How many seconds did it take you to get there? = _____ = **Heard**
- Sunrise is at 6:13 A.M. and sunset is at 7:16 P.M. How many hours and minutes of sunlight did we have? = _____ = **Snow**
- How many minutes have elapsed between 9:00 A.M. and 11:12 A.M.? = _____ = **Foot**
- If your gym, music, art, and math classes are 40 minutes each, what is the total number of hours and minutes? = _____ = **Trail**
- Two race car drivers finished a race in 46 minutes 30 seconds and 43 minutes 29 seconds, respectively. How much faster was the winner? = _____ = **He**
- If the fire drill interrupted class for 15 minutes, how many seconds of class did you miss? = _____ = **Along**
- If it's 3:30 P.M., how much time has passed since 1:25 P.M.? = _____ = **Deep**
- It takes 12 minutes and 36 seconds to walk around the city block. How many seconds did it take? = _____ = **Was**

3 minutes, 1 second	1,140 seconds	720 minutes	7:01 A.M.
13 hours, 3 minutes	900 seconds	3 minutes, 6 seconds	2 hours, 40 minutes
756 seconds	7:34 A.M.	132 minutes	2 hours, 5 minutes

Answers

Reveal a Historical Fact (page 5)

1. 2,611
2. 34,089
3. 626,854
4. 8,008
5. 6,534,211
6. 48,907,816
7. 508,798
8. 80,116,211
9. 7,707
10. 29,648

The Greek and Roman god of sun and youth was Apollo.

Cross-Number Puzzle (page 6)

- | | |
|-------------|------------|
| ACROSS | DOWN |
| 1. 4,703 | 1. 493,666 |
| 3. 2,435 | 2. 50,930 |
| 4. 5,009 | 4. 56,934 |
| 5. 164,593 | 6. 6,451 |
| 6. 604,590 | 8. 9,443 |
| 7. 85,396 | 9. 25,793 |
| 11. 546,371 | 10. 81,247 |
| 12. 348,007 | |

+	39	23	17	42	68	94	75	56	83	49	32	95	57	71	63
5	44	28	22	47	73	99	80	61	88	54	37	100	62	76	68
8	47	31	25	50	76	102	83	64	91	57	40	103	65	79	71
4	43	27	21	46	72	98	79	60	87	53	36	99	61	75	67
7	46	30	24	49	75	101	82	63	90	56	39	102	64	78	70
9	48	32	26	51	77	103	84	65	92	58	41	104	66	80	72
2	41	25	19	44	70	96	77	58	85	51	34	97	59	73	65
6	45	29	23	48	74	100	81	62	89	55	38	101	63	77	69
1	40	24	18	43	69	95	76	57	84	50	33	96	58	72	64
3	42	26	20	45	71	97	78	59	86	52	35	98	60	74	66

58 Errors (page 7)

What always goes to bed with shoes on? *Horse*

Break the Code (page 8)

- | | |
|-----------|----------|
| ACROSS | DOWN |
| 2. 2,393 | 1. 2,281 |
| 4. 2,271 | 2. 2,126 |
| 5. 2,315 | 3. 3,351 |
| 6. 2,186 | 6. 2,625 |
| 8. 24,636 | 7. 2,620 |

What word has two vowels, two consonants, and two vowels—all in a row? *Bookkeeper*

"Sum" Number Search (page 9)

1. 17,384
2. 19,841
3. 19,755
4. 25,641
5. 20,964
6. 25,538
7. 14,192
8. 26,410
9. 19,108
10. 22,157
11. 20,409
12. 28,124

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

What's the Difference?

Number Search (page 10)

1. 3,369
2. 4,125
3. 4,974
4. 3,559
5. 2,134
6. 2,559
7. 991
8. 7,714
9. 6,605
10. 1,558
11. 2,446
12. 572
13. 570
14. 9010
15. 2,371

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

Last Number - First Number #1

- (page 11)
1. 23,314
 2. 43,363
 3. 36,427
 4. 72,905
 5. 51,048
 6. 87,332
 7. 21,411
 8. 15,204
 9. 46,372
 10. 27,326
 11. 60,217
 12. 75,268

What geometric figure never makes a mistake? *A right angle*

Solve the Mystery (page 12)

- | | |
|-----------|-----------|
| ACROSS | DOWN |
| 1. 13,109 | 2. 31,922 |
| 5. 16,357 | 3. 27,309 |
| 6. 20,492 | 4. 44,418 |
| 7. 40,617 | 5. 12,222 |
| 9. 5,205 | 8. 3,552 |

What illness is difficult to discuss until it's completely cured? *Laryngitis*

What's the Difference Between Land and Sea? (page 13)

- | | | |
|----------|----------|----------|
| E 1,881 | P 12,003 | I 6,541 |
| A 12,037 | O 3,005 | R 13,555 |
| N 1,974 | T 9,999 | M 1,001 |
| D 17,006 | H 1,004 | W 11,132 |
| L 1,181 | Y 11,311 | S 652 |

The land is dirt-y and the sea is tide-y.

Cross Them Out #1 (page 14)

1. 13,525
2. 3,689
3. 12,521
4. 1,031
5. 12,221
6. 1,515
7. 16,290
8. 1,090
9. 10,151
10. 6,074
11. 7,573
12. 3,145

What's the difference between a sailor and a bargain hunter? *One sails the seas, the other sees the sales.*

59 Errors (page 15)

x	9	6	3	1	0	8	7	2	5	4	3	8	4	9	0	6	7	5
7	63	42	21	7	0	56	49	14	35	28	21	56	28	63	0	42	49	35
3	27	18	9	3	0	24	21	6	15	12	9	24	12	27	0	18	21	15
1	9	6	3	1	0	8	7	2	5	4	3	8	4	9	0	6	7	5
8	72	48	24	8	0	64	56	16	40	32	24	64	32	72	0	48	56	40
6	54	36	18	6	0	48	42	12	30	24	18	48	24	54	0	36	42	30
4	36	24	12	4	0	32	28	8	20	16	12	32	16	36	0	24	28	20
9	81	54	27	9	0	72	63	18	45	36	27	72	36	81	0	54	63	45
2	18	12	6	2	0	16	14	4	10	8	6	16	8	18	0	12	14	10
5	45	30	15	5	0	40	35	10	25	20	15	40	20	45	0	30	35	25

What is too much for one, enough for two, and nothing at all for three?

Secret

What a Mix-Up (page 16)

x	5	8	2	6
3	15	24	6	18
9	45	72	18	54
4	20	32	8	24
7	35	56	14	42

x	5	4	6	3
7	35	28	42	21
9	45	36	54	27
2	10	8	12	6
8	40	16	48	24

x	9	6	1	5
4	36	24	4	20
2	18	12	2	10
8	72	48	8	40
3	27	18	3	15

x	10	7	3	8
2	20	14	6	16
1	10	7	3	8
6	60	42	18	48
5	50	35	15	40

Note: There can be more than one solution to the following 2 boxes.

Solve the Riddle (page 17)

- | | | | |
|----------|----------|---------|----------|
| K 738 | R 24,210 | E 2,871 | N 40,035 |
| D 28,084 | L 65,142 | T 7,992 | H 12,420 |
| I 35,805 | B 48,120 | P 5,247 | A 2,901 |
| M 4,256 | Y 54,351 | W 4,130 | O 9,732 |

Do you know what Mary had when she went out to dinner? *People know Mary had a little lamb.*

Cross Them Out #2 (page 18)

1. 38,556
2. 21,276
3. 16,842
4. 28,020
5. 39,906
6. 61,104
7. 9,999
8. 56,623
9. 39,192

What did the father say to his son who wanted to be a tank driver when he grew up? *I certainly won't stand in your way.*

Match It #1 (page 19)

1. 1,674 2. 2,436 3. 736
 4. 4,508 5. 2,640 6. 2,520
 7. 2,961 8. 806 9. 1,152
 10. 2,166 11. 2,378 12. 3,528

Where does a frog change its clothes?
In a croak room

Secret Code Time (page 20)

- M 2,546 U 1,200 N 4,700 L 1,674
 W 1,855 T 2,291 D 1,972 O 3,239
 I 4,620 J 1,128 E 2,294 F 2,700
 R 600 S 3,496 A 4,512 H 4,524

Why did Godzilla eat Tokyo instead of Rome?
He just was not in the mood for Italian food.

Monster Mystery (page 21)

- | | |
|-----------|-----------|
| ACROSS | DOWN |
| 1. 24,576 | 1. 21,682 |
| 5. 56,296 | 2. 76,632 |
| 6. 61,386 | 3. 26,880 |
| 8. 30,272 | 4. 12,600 |
| 9. 44,154 | 7. 15,255 |

What did the hungry monster eat after the dentist pulled its tooth?
The dentist

Last Number – First Number #2 (page 22)

1. 18,213 2. 33,856
 3. 60,905 4. 51,646
 5. 60,092 6. 23,161
 7. 13,143 8. 32,076
 9. 63,714 10. 42,413
 11. 39,774 12. 43,831

What does the announcer say to start a flea race?
One, Two, Flea – GO!

Equal Values (page 23)

246	125	264	222	176
144	99	102	483	420
290	90	240	64	210
216	95	48	156	45

99	64	290	48	45
420	483	90	222	125
246	156	95	144	216
102	240	176	264	210

What's the best way to double your money?
If you fold the five-dollar bill, you double it. But if you open it up again you'll find it increases.

Did You Hear? Riddles (page 24)

- W 38 O 69 D 222 L 686
 T 54 M 521 Y 681 H 468
 S 442 A 588 F 123 U 55
 N 655 I 515 L 232 I 122

About your muscles? *Never Mind – It's a lot of mush.*

About the rotten pudding? *Never Mind – You wouldn't swallow it.*

Remainders (page 25)

- | | |
|---------|---------|
| ACROSS | DOWN |
| 1. 78r6 | 1. 92r7 |
| 2. 48r5 | 2. 49r4 |
| 3. 69r3 | 3. 90r2 |
| 5. 89r1 | 4. 67r8 |
| 6. 38r2 | 7. 65r2 |
| 7. 96r3 | 8. 88r7 |



Match It #2 (page 26)

1. 583 2. 246 3. 339 4. 949
 5. 443 6. 409 7. 560 8. 300
 9. 764 10. 226 11. 793 12. 415

What do you give a seasick elephant?
Plenty of room

99s (page 27)

1. 23r30 2. 56r48 3. 71r31
 4. 64r42 5. 37r17 6. 88r52
 7. 49r39 8. 57r23 9. 76r24

More Did You Hear? Riddles (page 28)

- P 13 A 75 T 68 H 86
 R 22 O 41 U 20 K 80
 Y 40 I 83 M 43 C 35
 S 38 C 39 E 21 N 66

About the rotten food? *Never mind – it turns my stomach.*

About the chef who dropped the egg?
Never mind – it cracks me up.

Follow the Arrows #1 (page 29)

- A 18,931 ➤ 4,458 ➤ 2,229 ➤ 11,145
 ➤ 4,210 ➤ 842
 B 24,244 ➤ 451 ➤ 17,589 ➤ 5,214 ➤ 869
 ➤ 46,926 ➤ 5,551

Links (page 30)

- N 80 D 1,098 L 44 G 847 Y 231
 A 77 S 36 B 1,060 U 183 O 105

What strange children live in the ocean?
Buoys and gulls

Shapely Math #1 (page 31)

1. $(48 \times \triangleleft 44) \div (\diamond 68 - 63) = 422 \text{ r}2$
 2. $(22 \times 75) \div (68 - 22) = 35 \text{ r}40$
 3. $(63 \times 84) \div (39 - 35) = 1,323$
 4. $(48 \times 24) \div (97 - 91) = 192$
 5. $(32 \times 74) \div (63 - 57) = 394 \text{ r}4$
 6. $(39 \times 91) \div (91 - 84) = 507$

Elephant Trivia (page 32)

- J 84 I 113 K 81 A 112
 L 85 T 91 E 90 R 149
 O 104 S 165 N 64
 D 72 W 159 H 50

Why did the elephant cross the road?
He didn't want to hear that last joke.

Riddle Time (page 33)

- | | |
|------|------|
| T 48 | K 7 |
| G 34 | C 31 |
| E 36 | H 9 |
| A 6 | N 40 |
| F 68 | S 8 |
| W 5 | P 25 |
| I 33 | O 26 |

What has 500 teeth and says "Beware of Dog"?
A picket fence with a sign on it

Equal Values (page 34)

$\frac{5}{3} = 1\frac{2}{3}$	$\frac{14}{10} = 1\frac{4}{10} = 1\frac{2}{5}$	$\frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$	$\frac{8}{5} = 1\frac{3}{5}$
$\frac{13}{8} = 1\frac{5}{8}$	$\frac{17}{14} = 1\frac{3}{14}$	$\frac{7}{4} = 1\frac{3}{4}$	$\frac{17}{12} = 1\frac{5}{12}$
$\frac{12}{7} = 1\frac{5}{7}$	$\frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$	$\frac{9}{4} = 2\frac{1}{4}$	$\frac{11}{6} = 1\frac{5}{6}$
$\frac{9}{7} = 1\frac{2}{7}$	$\frac{5}{2} = 2\frac{1}{2}$	$\frac{12}{9} = 1\frac{3}{9} = 1\frac{1}{3}$	$\frac{13}{12} = 1\frac{1}{12}$

What is the difference between a football player and a duck?
A football player is found in a huddle, but a duck is found in a puddle.

A Sharp Riddle (page 35)

- | | | | |
|------------------|-------------------|-------------------|-------------------|
| D $1\frac{1}{6}$ | E $\frac{1}{3}$ | F $\frac{7}{20}$ | S $\frac{1}{2}$ |
| T $\frac{3}{10}$ | O $2\frac{1}{8}$ | R $1\frac{7}{24}$ | Y $\frac{7}{30}$ |
| I $\frac{5}{6}$ | H $\frac{1}{4}$ | L $1\frac{1}{3}$ | C $\frac{11}{24}$ |
| U $\frac{2}{15}$ | K $1\frac{5}{12}$ | W $\frac{4}{21}$ | N $1\frac{3}{14}$ |

If two vampires had a race, who would win?
Neither—they would finish neck-in-neck.

Wrestle the Code (page 36)

E $\frac{1}{2}$	A $\frac{3}{4}$
D $\frac{1}{3}$	R $2\frac{1}{3}$
T $\frac{2}{3}$	O $\frac{1}{6}$
S $1\frac{1}{5}$	W $2\frac{1}{4}$
Y 1	N $1\frac{1}{3}$
I $1\frac{1}{2}$	L 3
H $1\frac{2}{3}$	F $\frac{6}{7}$
	G $\frac{5}{9}$

What did the wrestler say when he sat down to eat at the buffet? *I really don't want all this food to go to waist.*

Decimal Match (page 37)

1. 0.3 2. 13.001 3. 4.04 4. 7.015
 5. 13.01 6. 4.004 7. 0.03 8. 13.1
 9. 4.040 10. 13.10 11. 4.4 12. 7.15

How do we know football referees are happy? *We know referees are happy because they always whistle while they work.*

Follow the Arrows #2 (page 38)

- A 158.511 \triangleright 64.435 \triangleright 4.7 \triangleright 11.75
 \triangleright 2.35 \triangleright 9.4
 B 595.765 \triangleright 4.445 \triangleright 26.67 \triangleright 7.65
 \triangleright 1.53 \triangleright 10.098 \triangleright 0.099

Coded Riddle (page 39)

- F 11.02 L 78.3 B 350.4
 S 127.02 H 439.35 R 33.06
 E 316.91 Y 3,754.4 I 245.05
 P 3,920.4 D 315.27 W 3,729.6
 N 1,660.6 U 4,720.8 O 152.32
 T 3,096.6

Why did the doughnut makers finally close their shop? *They were fed up with the hole business.*

Decimal Fun (page 40)

- R 28.469 T 1,209.55 N 145.01
 S 9.232 C 50.035 D 17.333
 H 231.7 I 207.35 E 71
 G 396

Why did the hen always lift eggs? *She needed the eggs-ercise.*

1. $(4.3 - \overline{4.01}) + (\overline{35.4} - 5.2) = 30.49$
 2. $(.072 - .007) + (8.3 - 6.7) = 1.665$
 3. $(99.1 - 66) + (6.38 - 6.01) = 33.47$
 4. $(99.1 - 84.1) + (77 - 6.7) = 16$
 5. $(948 - .007) + (6.34 - .407) = 953.926$
 6. $(24.9 - 4.3) + (84.1 - 35.4) = 69.3$

Shapely Math #2 (page 41)**No Kidding!** (page 42)

- C 1.8 S 5 M 4.3 E 0.61
 R 0.2 A 9.5 H 0.32 L 0.7
 I 0.3 Y 0.39 B 0.4 O 0.04
 U 0.8 T 8

What's the tallest building in town?
The library, because it has the most stories.

Hidden Question and Answer #1

(page 43)

- Y (0,2) A (2,0) I (5,4)
 B (8,0) N (11,8) R (1,8)
 S (4,8) H (6,7) E (9,6)
 D (1,5) O (4,6) M (7,5)
 L (10,5) W (2,2) K (4,3)
 G (8,3) T (10,1)

Question: *What did the egg say to the blender?*

Answer: *I know when I'm beaten.*

Hidden Question and Answer #2

(page 44)

- Y (0,7) R (2,5) A (4,1)
 T (7,3) U (9,2) S (0,1)
 E (3,8) B (5,4) O (8,7)
 N (10,4) H (1,3) D (3,4)
 L (6,9) V (8,0) I (1,0)
 F (4,6) C (6,5) W (9,8)

Question: *What is the best cure for double vision?*

Answer: *Shut one eye.*

A Timely Puzzle (page 45)

1. 720 minutes 2. 7:01 A.M.
 3. 3 minutes, 6 seconds 4. 7:34 A.M.
 5. 1,140 seconds 6. 13 hours, 3 minutes
 7. 132 minutes 8. 2 hours, 40 minutes
 9. 3 minute, 1 second 10. 900 seconds
 11. 2 hours, 5 minutes 12. 756 seconds

Why did the downhill skier wear just one boot? *He heard that the snow along the trail was one foot deep.*