

**Math
Practice
Puzzles**

Multiplication and Division

by
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Introduction

Multiplication and Division Practice Can Be Super Fun!

Multiplication and division are two concepts I've always enjoyed teaching. Early in the school year, I emphasize these basic operations and encourage my students to learn their multiplication and division facts solidly. To help my students gain fluency and accuracy, I create skill-building practice puzzles and activities that they really enjoy—many of which you'll find in this book! These puzzles motivate my students to sharpen their multiplication and division skills and help them develop the strategies and confidence they need to tackle bigger mathematics challenges they'll encounter later in the year, including complex word problems and operations with decimals, fractions, and measurement.

What You'll Find in This Book

This book offers a collection of 40 multiplication and division activities for a broad range of skills and abilities. The book begins with activities involving multiplication, then progresses to division, and finally moves into mixed practice. The puzzles are arranged according to skill, from easy to difficult, beginning with basic facts and concluding with word problems. You can match the needs of your students and target a specific skill by checking the skill description, listed both in the Table of Contents and under the objective on each activity page.

I've also included Tips for Dividing (pages 26–27), two quick-and-easy reference pages that my students have found especially helpful. These pages teach useful tips for tackling division problems with single-digit divisors. I usually assign No Remainders Please #1 (page 28) to review divisibility

Student Reference Page: Divisibility Rules

Name _____ Date _____

Tips for Dividing by 2, 3, and 4

2 A number is divisible by 2 if the number in the ones column is an even number: 0, 2, 4, 6, 8.
All of the following numbers can be divided by 2 and there is **no remainder**.

$2 \overline{)38478}$ $2 \overline{)98476}$ $2 \overline{)6536}$
 $2 \overline{)39004}$ $2 \overline{)49972}$

3 A number is divisible by 3 if the **sum of its digits** can be divided by 3.
For example:

$3 \overline{)96}$ $9 + 6 = 15$ **15 can be divided evenly by 3.**
Therefore **96** can be divided evenly by 3.

$3 \overline{)495}$ $4 + 9 + 5 = 18$ **18 can be divided evenly by 3.**
Therefore **495** can be divided evenly by 3.


$3 \overline{)79404}$ $7 + 9 + 4 + 0 + 4 = 24$ **24 can be divided evenly by 3.**
Therefore **79,404** can be divided evenly by 3.

4 A number is divisible by 4 if its **last two digits** are divisible by 4.
For example:

$4 \overline{)38720}$ **20 can be divided evenly by 4.**
Therefore **58,720** can be divided evenly by 4.

$4 \overline{)67184}$ **84 can be divided evenly by 4.**
Therefore **673,484** can be divided evenly by 4.

$4 \overline{)30036}$ **36 can be divided evenly by 4.**
Therefore **30,036** can be divided evenly by 4.

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Student Reference Page: Divisibility Rules

Name _____ Date _____

Tips for Dividing by 5, 6, 8, and 9

5 A number is divisible by 5 if the **number ends in 0 or 5**.
All of the following numbers can be divided by 5 and there is **no remainder**.

$5 \overline{)4905}$ $5 \overline{)6305}$ $5 \overline{)4735}$
 $5 \overline{)9600}$ $5 \overline{)7930}$

6 A number is divisible by 6 if it is **divisible by 2 and 3**.
For example: $6 \overline{)570}$

APPLY THE DIVISIBILITY RULE FOR 2: **570** can be divided evenly by 2 since it ends in 0.
APPLY THE DIVISIBILITY RULE FOR 3: $5 + 7 + 0 = 12$ **12 can be divided evenly by 3.**
Therefore **570** can be divided evenly by 3.
Since 2 and 3 divide into 570 evenly, 6 can divide into 570 evenly.

8 A number is divisible by 8 if the **last three digits are divisible by 8**.
All of the following numbers can be divided by 8 and there is **no remainder**.


For example: $8 \overline{)796800}$ **800 can be divided evenly by 8.**
Therefore **796,800** can be divided evenly by 8.

$8 \overline{)61848}$ **848 can be divided evenly by 8.**
Therefore **63,848** can be divided evenly by 8.

9 A number is divisible by 9 if the **sum of its digits can be divided by 9**.
For example:

$9 \overline{)5472}$ $5 + 4 + 7 + 2 = 18$ **18 can be divided evenly by 9.**
Therefore **5,472** can be divided evenly by 9.

$9 \overline{)364725}$ $3 + 6 + 4 + 7 + 2 + 5 = 27$ **27 can be divided evenly by 9.**
Therefore **364,725** can be divided evenly by 9.

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rules for 2, 3, and 4, and follow with No Remainders Please #2 (page 29) to review divisibility rules for 5, 6, 8, and 9. Once my class has practiced these problems with their Tips for Dividing reference pages, I assess their ability to apply divisibility rules 2–9 with No Remainders Please #3 (page 30). This has turned out to be a very successful sequence of activities and my students' ability to accurately solve division problems has improved markedly.

How to Use This Book

Be sure to use these puzzles in a way that best suits the needs of your class. You may find it helpful to assign certain puzzles as practice work to follow a lesson, as review work, or as homework. You also may want to have students work on different puzzles depending on the skills each student needs to practice. The beauty of these activities is that almost all of them are self-correcting. Whether they are solving a riddle, breaking a code, or filling in a number puzzle, students are encouraged to check each problem so that they can finish the puzzle successfully.

Connections to the Math Standards

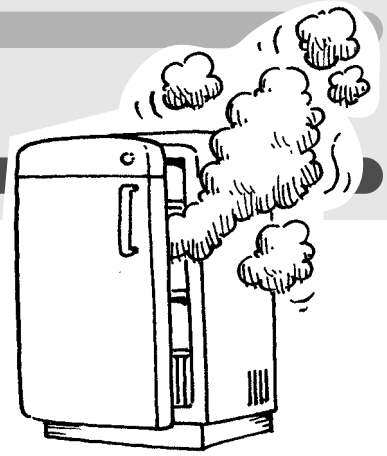
Most of the puzzles in this book target NCTM 2000 objectives listed under the Number and Operations standard. These objectives include understanding ways to represent numbers, determining meanings of operations and how they relate to one another, and computing with fluency and accuracy. This book is packed with exercises that require students to use the operations of multiplication and division in a variety of formats, including word problems and multiple step equations.

I'm confident that your students, like mine, will enjoy this collection of puzzles and reap the benefits of practicing these essential skills!

—Bob Olenych

Name _____ Date _____

Hot! Hot! Hot!



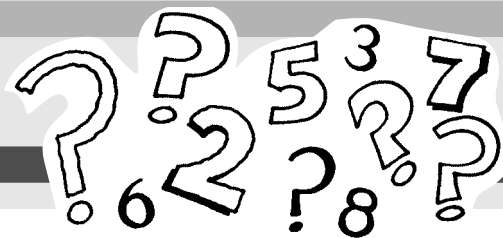
This multiplication grid contains 76 errors. Check all the answers carefully. When you find a mistake, correct it and shade in that box. When you have finished shading in the boxes with errors, the grid will reveal an answer to the following riddle.

What always stays hot even when you put it in the refrigerator?

X	8	5	3	2	7	6	4	0	9	2	5	8	1	7	4	3	9	1	2	6	0	3	7
2	18	7	5	8	14	12	8	2	16	1	7	16	3	12	6	5	18	2	4	12	0	6	14
6	42	30	18	21	42	36	24	6	54	12	35	48	7	42	24	15	54	6	12	36	0	18	42
7	63	30	20	12	49	42	28	7	36	12	30	56	8	81	27	20	63	7	14	40	7	20	48
1	9	5	3	2	7	6	4	1	9	2	5	8	2	7	4	3	9	1	2	7	0	3	8
5	35	25	8	7	30	35	20	5	45	10	25	40	6	35	21	18	40	6	10	35	5	14	36
8	64	40	11	16	56	48	32	0	72	16	40	64	8	56	36	24	72	8	16	42	0	27	56
4	32	20	7	6	27	24	16	0	36	8	20	32	4	28	12	10	63	4	8	25	0	12	25
9	72	45	26	18	63	54	36	0	81	18	45	72	9	63	63	27	81	9	18	54	0	27	63
3	24	15	6	5	20	15	12	0	27	6	15	24	3	21	14	6	28	4	6	18	0	9	21

Name _____ Date _____

What a Mix-Up



Here are four mixed-up multiplication charts. Find the missing factors and products to complete these charts correctly. Some of these charts may have more than one solution.

X	7	4	6	3
5				
2				
8			48	
9				

X	4	9	2	
3				
8				
		45		
7				42

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				
	12		24	
		25		
	14			
9				27

X				
	18			
				21
			32	
		45		

Name _____ Date _____

Anxious Mother



Solve each of the problems below. Locate 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 a question and an answer.

$(18 \div 6) \times (20 \div 5) = \underline{\hspace{2cm}} = \text{SON}$

$(48 \div 8) \times (9 \div 3) = \underline{\hspace{2cm}} = \text{HER}$

$(24 \div 3) \times (16 \div 4) = \underline{\hspace{2cm}} = \text{GHOST}$

$(21 \div 7) \times (40 \div 5) = \underline{\hspace{2cm}} = \text{THE}$

$(40 \div 8) \times (45 \div 5) = \underline{\hspace{2cm}} = \text{SUCH}$

$(20 \div 4) \times (25 \div 5) = \underline{\hspace{2cm}} = \text{BE}$

$(49 \div 7) \times (56 \div 7) = \underline{\hspace{2cm}} = \text{LITTLE}$

$(45 \div 9) \times (70 \div 10) = \underline{\hspace{2cm}} = \text{WHY}$

$(21 \div 3) \times (36 \div 6) = \underline{\hspace{2cm}} = \text{TIME}$

$(24 \div 8) \times (36 \div 4) = \underline{\hspace{2cm}} = \text{SEEMED}$

$(54 \div 9) \times (35 \div 7) = \underline{\hspace{2cm}} = \text{THE}$

$(14 \div 2) \times (20 \div 5) = \underline{\hspace{2cm}} = \text{ALL}$

$(81 \div 9) \times (64 \div 8) = \underline{\hspace{2cm}} = \text{ALWAYS}$

$(63 \div 7) \times (54 \div 6) = \underline{\hspace{2cm}} = \text{ABOUT}$

$(30 \div 5) \times (72 \div 9) = \underline{\hspace{2cm}} = \text{SPIRITS}$

$(70 \div 10) \times (6 \div 3) = \underline{\hspace{2cm}} = \text{HE}$

$(12 \div 6) \times (100 \div 10) = \underline{\hspace{2cm}} = \text{WORRIED}$

$(42 \div 7) \times (18 \div 3) = \underline{\hspace{2cm}} = \text{GREAT}$

$(28 \div 4) \times (15 \div 5) = \underline{\hspace{2cm}} = \text{TO}$

$(16 \div 2) \times (10 \div 2) = \underline{\hspace{2cm}} = \text{MOTHER}$

$(8 \div 4) \times (10 \div 5) = \underline{\hspace{2cm}} = \text{WAS}$

$(56 \div 8) \times (9 \div 1) = \underline{\hspace{2cm}} = \text{IN}$

QUESTION:

35	4	30	40	32
20	81	18	56	12

?

ANSWER:

14	72	27	21	25	63
45	36	48	28	24	42

Name _____ Date _____

Limerick Fun



Solve each of these division and multiplication problems. Record your answer in the space provided. Then locate your answer in the code below and write the letter from the problem in the matching code space. As you find identical answers, give those answers the same letter. One example has been done for you.

- | | | | |
|---|---|---|---|
| $(24 \div 8) \times 8 = \underline{24} = \mathbf{G}$ | $(48 \div 8) \times 3 = \underline{\quad} = \mathbf{K}$ | $(18 \div 3) \times 7 = \underline{\quad} = \mathbf{U}$ | $(27 \div 9) \times 7 = \underline{\quad} = \mathbf{A}$ |
| $(56 \div 7) \times 2 = \underline{\quad} = \mathbf{I}$ | $(35 \div 7) \times 6 = \underline{\quad} = \mathbf{T}$ | $(49 \div 7) \times 8 = \underline{\quad} = \mathbf{F}$ | $(54 \div 9) \times 2 = \underline{\quad} = \mathbf{M}$ |
| $(72 \div 8) \times 3 = \underline{\quad} = \mathbf{W}$ | $(10 \div 1) \times 6 = \underline{\quad} = \mathbf{L}$ | $(32 \div 8) \times 9 = \underline{\quad} = \mathbf{D}$ | $(50 \div 5) \times 0 = \underline{\quad} = \mathbf{H}$ |
| $(81 \div 9) \times 5 = \underline{\quad} = \mathbf{Y}$ | $(20 \div 5) \times 1 = \underline{\quad} = \mathbf{N}$ | $(21 \div 3) \times 4 = \underline{\quad} = \mathbf{R}$ | $(42 \div 6) \times 7 = \underline{\quad} = \mathbf{C}$ |
| $(15 \div 3) \times 4 = \underline{\quad} = \mathbf{P}$ | $(45 \div 5) \times 9 = \underline{\quad} = \mathbf{E}$ | $(40 \div 8) \times 7 = \underline{\quad} = \mathbf{O}$ | $(24 \div 6) \times 8 = \underline{\quad} = \mathbf{S}$ |
| | | | $(16 \div 8) \times 3 = \underline{\quad} = \mathbf{J}$ |

$\frac{30}{\quad}$	$\frac{0}{\quad}$	$\frac{81}{\quad}$	$\frac{28}{\quad}$	$\frac{81}{\quad}$	/	$\frac{27}{\quad}$	$\frac{21}{\quad}$	$\frac{32}{\quad}$	/	$\frac{21}{\quad}$	/	$\frac{45}{\quad}$	$\frac{35}{\quad}$	$\frac{42}{\quad}$	$\frac{4}{\quad}$	$\frac{\mathbf{G}}{24}$	/	$\frac{12}{\quad}$	$\frac{21}{\quad}$	$\frac{4}{\quad}$
					/	$\frac{56}{\quad}$	$\frac{28}{\quad}$	$\frac{35}{\quad}$	$\frac{12}{\quad}$	/	$\frac{60}{\quad}$	$\frac{81}{\quad}$	$\frac{81}{\quad}$	$\frac{36}{\quad}$	$\frac{32}{\quad}$					
$\frac{27}{\quad}$	$\frac{0}{\quad}$	$\frac{35}{\quad}$	/	$\frac{32}{\quad}$	$\frac{27}{\quad}$	$\frac{21}{\quad}$	$\frac{60}{\quad}$	$\frac{60}{\quad}$	$\frac{35}{\quad}$	$\frac{27}{\quad}$	$\frac{81}{\quad}$	$\frac{36}{\quad}$	/	$\frac{21}{\quad}$						
			/	$\frac{20}{\quad}$	$\frac{21}{\quad}$	$\frac{49}{\quad}$	$\frac{18}{\quad}$	$\frac{81}{\quad}$	$\frac{30}{\quad}$	/	$\frac{35}{\quad}$	$\frac{56}{\quad}$	/	$\frac{32}{\quad}$	$\frac{81}{\quad}$	$\frac{81}{\quad}$	$\frac{36}{\quad}$	$\frac{32}{\quad}$		
$\frac{27}{\quad}$	$\frac{16}{\quad}$	$\frac{30}{\quad}$	$\frac{0}{\quad}$	$\frac{16}{\quad}$	$\frac{4}{\quad}$	/	$\frac{6}{\quad}$	$\frac{42}{\quad}$	$\frac{32}{\quad}$	$\frac{30}{\quad}$	/	$\frac{35}{\quad}$	$\frac{4}{\quad}$	$\frac{81}{\quad}$	/	$\frac{0}{\quad}$	$\frac{35}{\quad}$	$\frac{42}{\quad}$	$\frac{28}{\quad}$	
$\frac{0}{\quad}$	$\frac{16}{\quad}$	$\frac{32}{\quad}$	/	$\frac{4}{\quad}$	$\frac{35}{\quad}$	$\frac{32}{\quad}$	$\frac{81}{\quad}$	/	$\frac{27}{\quad}$	$\frac{21}{\quad}$	$\frac{32}{\quad}$	/	$\frac{21}{\quad}$	/	$\frac{56}{\quad}$	$\frac{60}{\quad}$	$\frac{35}{\quad}$	$\frac{27}{\quad}$	$\frac{81}{\quad}$	$\frac{28}{\quad}$
$\frac{21}{\quad}$	$\frac{4}{\quad}$	$\frac{36}{\quad}$	/	$\frac{0}{\quad}$	$\frac{16}{\quad}$	$\frac{32}{\quad}$	/	$\frac{0}{\quad}$	$\frac{81}{\quad}$	$\frac{21}{\quad}$	$\frac{36}{\quad}$	/	$\frac{27}{\quad}$	$\frac{21}{\quad}$	$\frac{32}{\quad}$	/	$\frac{21}{\quad}$			
			/	$\frac{12}{\quad}$	$\frac{81}{\quad}$	$\frac{32}{\quad}$	$\frac{32}{\quad}$	/	$\frac{35}{\quad}$	$\frac{56}{\quad}$	/	$\frac{27}{\quad}$	$\frac{81}{\quad}$	$\frac{81}{\quad}$	$\frac{36}{\quad}$	$\frac{32}{\quad}$				

Name _____ Date _____

Equal Values



Solve the problems in both sets of boxes. Then match each answer in the top boxes to an equivalent answer in the bottom boxes. Discover the answer to the following question by writing each word from the top set of boxes in the boxes underneath with the matching answer. One example has been done for you.

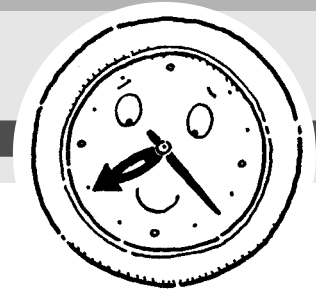
Why did the comedian's wife file for divorce?

$9 \times 8 =$ 72 HER	$32 \times 3 =$ WHILE	$17 \times 6 =$ TRYING	$49 \times 4 =$ COMEDIAN'S	$25 \times 4 =$ DEATH
$40 \times 3 =$ THE	$13 \times 8 =$ HUSBAND	$40 \times 6 =$ THAT	$22 \times 8 =$ WIFE	$36 \times 5 =$ THE
$26 \times 6 =$ SAID	$85 \times 2 =$ TO	$13 \times 9 =$ FUNNY	$57 \times 3 =$ TIME	$50 \times 9 =$ WAS
$62 \times 6 =$ JOKE	$47 \times 4 =$ SOBBING	$33 \times 6 =$ HER	$18 \times 8 =$ ALL	$35 \times 8 =$ TO

$20 \times 9 =$ _____	$28 \times 7 =$ _____	$44 \times 4 =$ _____	$52 \times 3 =$ _____ ,	$12 \times 8 =$ _____
$94 \times 2 =$ _____ ,	$30 \times 8 =$ _____	$24 \times 3 =$ 72 her	$39 \times 3 =$ _____	$26 \times 4 =$ _____
$75 \times 6 =$ _____	$34 \times 3 =$ _____	$34 \times 5 =$ _____	$93 \times 4 =$ _____	$66 \times 3 =$ _____
$70 \times 4 =$ _____	$20 \times 5 =$ _____	$24 \times 6 =$ _____	$24 \times 5 =$ _____	$19 \times 9 =$ _____ !

Name _____ Date _____

G'Day



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.

What did the clockmaker say to all of his good friends?

Y

$$\begin{array}{r} 728 \\ \times 5 \\ \hline \end{array}$$

N

$$\begin{array}{r} 309 \\ \times 9 \\ \hline \end{array}$$

O

$$\begin{array}{r} 462 \\ \times 6 \\ \hline \end{array}$$

I

$$\begin{array}{r} 581 \\ \times 8 \\ \hline \end{array}$$

A

$$\begin{array}{r} 743 \\ \times 3 \\ \hline \end{array}$$

R

$$\begin{array}{r} 980 \\ \times 2 \\ \hline \end{array}$$

G

$$\begin{array}{r} 630 \\ \times 7 \\ \hline \end{array}$$

H

$$\begin{array}{r} 997 \\ \times 4 \\ \hline \end{array}$$

C

$$\begin{array}{r} 458 \\ \times 5 \\ \hline \end{array}$$

D

$$\begin{array}{r} 297 \\ \times 6 \\ \hline \end{array}$$

V

$$\begin{array}{r} 684 \\ \times 9 \\ \hline \end{array}$$

S

$$\begin{array}{r} 893 \\ \times 8 \\ \hline \end{array}$$

W

$$\begin{array}{r} 408 \\ \times 3 \\ \hline \end{array}$$

M

$$\begin{array}{r} 796 \\ \times 7 \\ \hline \end{array}$$

E

$$\begin{array}{r} 228 \\ \times 4 \\ \hline \end{array}$$

912	6,156	912	1,960	3,640
-----	-------	-----	-------	-------

5,572	2,772	1,960	2,781	4,648	2,781	4,410
-------	-------	-------	-------	-------	-------	-------

1,224	912
-------	-----

1,960	4,648	7,144	912
-------	-------	-------	-----

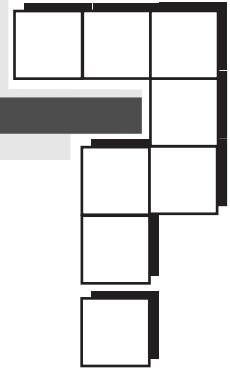
2,229	2,781	1,782
-------	-------	-------

2,290	3,988	4,648	5,572	912
-------	-------	-------	-------	-----

!

Name _____ Date _____

Cross Number Puzzle



Express each written number in its numerical form. Then solve all of the multiplication problems below. Write your answer in the appropriate across or down position.

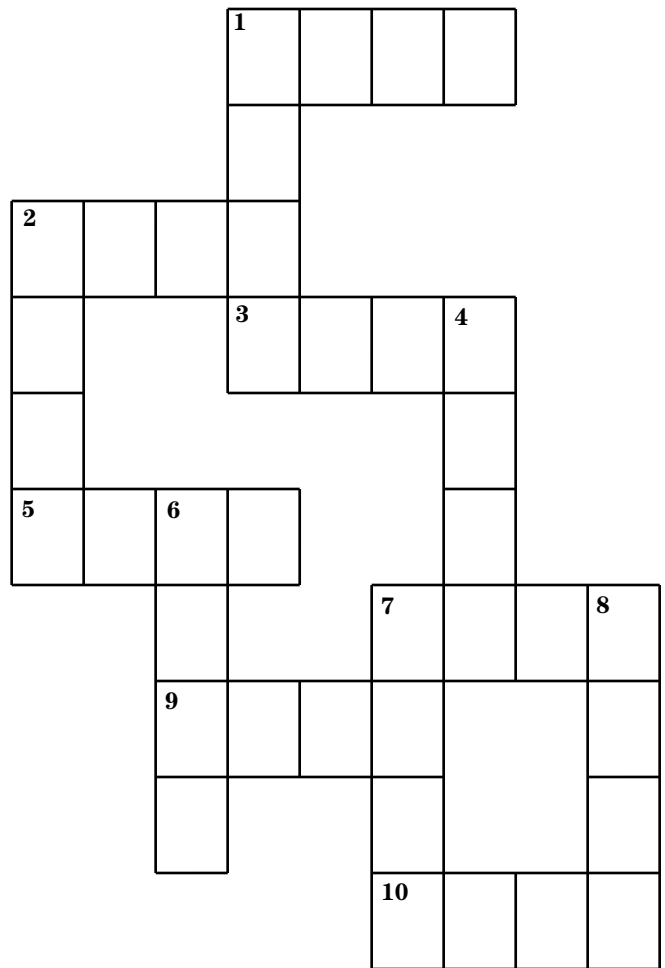
ACROSS

NUMERICAL FORM

1. Multiply five hundred eighty-six by five _____
2. Multiply nine hundred eighty-eight by six _____
3. Multiply seven hundred ninety-nine by six _____
5. Multiply six hundred seventy-eight by three _____
7. Multiply six hundred fifty-three by five _____
9. Multiply seven hundred forty-seven by four _____
10. Multiply eight hundred twenty-five by eight _____

DOWN

1. Multiply three hundred seventy-three by eight _____
2. Multiply seven hundred forty-six by seven _____
4. Multiply six hundred nine by eight _____
6. Multiply four hundred sixty by seven _____
7. Multiply four hundred eighty-seven by eight _____
8. Multiply nine hundred forty by six _____



Name _____ Date _____

Cross Them Out



Solve all of the problems below. Locate and cross out each of the correct answers in the grid. (Answers run horizontally, left to right.) When you have finished, 35 boxes will remain. Write the remaining letters in order from left to right and top to bottom to reveal the answer to the following riddle. The first problem has been done for you.

Why did the service station mechanic always dress in disguise?

1.
$$\begin{array}{r} 5,096 \\ \times \quad 6 \\ \hline 30,576 \end{array}$$

2.
$$\begin{array}{r} 4,937 \\ \times \quad 8 \end{array}$$

3.
$$\begin{array}{r} 6,407 \\ \times \quad 7 \end{array}$$

4.
$$\begin{array}{r} 7,009 \\ \times \quad 3 \end{array}$$

5.
$$\begin{array}{r} 4,150 \\ \times \quad 5 \end{array}$$

6.
$$\begin{array}{r} 3,050 \\ \times \quad 9 \end{array}$$

7.
$$\begin{array}{r} 5,800 \\ \times \quad 4 \end{array}$$

8.
$$\begin{array}{r} 9,779 \\ \times \quad 7 \end{array}$$

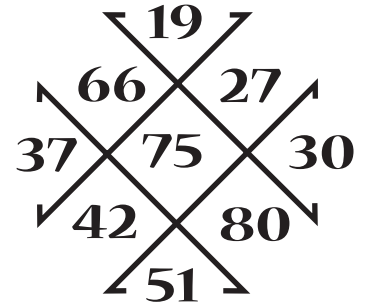
9.
$$\begin{array}{r} 8,240 \\ \times \quad 6 \end{array}$$

A ₂	C ₃	R ₂	E ₀	T ₀	H ₄	E ₉	A ₇	L ₀	W ₄
A ₅	Y ₇	B ₃	O ₉	D ₄	I ₉	L ₆	S ₆	W ₃	I ₅
S ₄	H ₇	E ₀	D ₈	G ₂	R ₁	I ₀	D ₂	E ₇	T ₃
A ₂	B ₇	O ₄	D ₅	L ₀	T₃	T₀	W₅	A₇	E₆
O ₆	B ₆	E ₀	J ₆	X ₈	E ₄	F ₅	E ₃	A ₃	S ₈
E ₄	R ₄	S ₉	T ₄	W ₄	O ₀	C ₄	R ₄	E ₀	T ₄
S ₂	E ₇	R ₈	C ₂	L ₀	O ₇	U ₅	R ₀	V ₇	I ₉
C ₁	E ₃	M ₉	A ₆	N ₃	D ₄	R ₄	I ₈	T ₄	S ₉

Shapely Math #1

Study the shapes in problems 1–6. Each shape has only one match in the number grids at the right. Use the shapes to fill in the missing numbers in the equations. Solve each number sentence and find your answer in the Answer Box below.

81	32	65
47	90	68
78	55	24



1. ($\boxed{65} \times \diamond 75$) - ($\square \times \triangleleft$) = _____

2. ($\square \times \diamond$) + ($\square \times \triangleleft$) = _____

3. ($\square \times \triangle$) + ($\square \times \diamond$) = _____

4. ($\square \times \triangleright$) - ($\square \times \diamond$) = _____

5. ($\square \times \triangle$) + ($\square \times \diamond$) = _____

6. ($\square \times \diamond$) - ($\square \times \triangleleft$) = _____

ANSWER BOX

9,006	7,736	4,984
3,600	3,180	3,465
7,936	1,302	8,245

Hint

There are 3 answers in the Answer Box that you will not use.

Name _____ Date _____

Politeness Please



Solve the 10 multiplication problems below. Write the answers in the across and down spaces in the cross-number puzzle. The number you record in the shaded box shows where the letter should go in the code at the bottom to solve this riddle.

ACROSS

- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| 1. | $\begin{array}{r} 773 \\ \times 56 \\ \hline \end{array}$ | 4. | $\begin{array}{r} 319 \\ \times 48 \\ \hline \end{array}$ | 6. | $\begin{array}{r} 687 \\ \times 82 \\ \hline \end{array}$ | 7. | $\begin{array}{r} 470 \\ \times 84 \\ \hline \end{array}$ | 8. | $\begin{array}{r} 916 \\ \times 72 \\ \hline \end{array}$ |
|----|---|----|---|----|---|----|---|----|---|

DOWN

- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| 1. | $\begin{array}{r} 600 \\ \times 78 \\ \hline \end{array}$ | 2. | $\begin{array}{r} 678 \\ \times 43 \\ \hline \end{array}$ | 3. | $\begin{array}{r} 358 \\ \times 96 \\ \hline \end{array}$ | 5. | $\begin{array}{r} 509 \\ \times 38 \\ \hline \end{array}$ | 6. | $\begin{array}{r} 838 \\ \times 69 \\ \hline \end{array}$ |
|----|---|----|---|----|---|----|---|----|---|

1		2										
E									3			
		4	A			5		6		T		
								W				
		E			7							
												E
8		R				F						

To prove he was a gentleman, what did the ram say to his girlfriend?

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

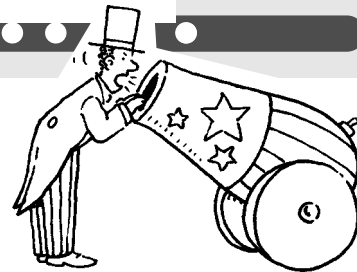
6	7	8	.
---	---	---	---

Name _____ Date _____

Last Number-First Number

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 some answers backwards: problems 5, 6, 7, 8, 11, and 12. After you have finished the puzzle, use the numbers you've written in the shaded boxes to place the letters in the code at the bottom. The completed code will answer this question:



What did the circus owner shout at his human cannonball?

1. $\begin{array}{r} 692 \\ \times 47 \\ \hline \end{array}$	2. $\begin{array}{r} 706 \\ \times 62 \\ \hline \end{array}$	3. $\begin{array}{r} 407 \\ \times 62 \\ \hline \end{array}$	4. $\begin{array}{r} 905 \\ \times 53 \\ \hline \end{array}$	5. $\begin{array}{r} 871 \\ \times 66 \\ \hline \end{array}$	6. $\begin{array}{r} 781 \\ \times 86 \\ \hline \end{array}$
--	--	--	--	--	--

7. $\begin{array}{r} 782 \\ \times 86 \\ \hline \end{array}$	8. $\begin{array}{r} 518 \\ \times 47 \\ \hline \end{array}$	9. $\begin{array}{r} 223 \\ \times 28 \\ \hline \end{array}$	10. $\begin{array}{r} 589 \\ \times 71 \\ \hline \end{array}$	11. $\begin{array}{r} 937 \\ \times 98 \\ \hline \end{array}$	12. $\begin{array}{r} 808 \\ \times 75 \\ \hline \end{array}$
--	--	--	---	---	---

1	O			2		I	3
→						↓	
U		9			10		
	→				↓		
8			D			Y	4
				→		11	
E					←		
			12				E
	↑						←
7	F			6	R		5

“

1	2	3
---	---	---

 /

4	5
---	---

6	7	8	9	0
---	---	---	---	---

 !!!”

Name _____ Date _____

Tic-Tac-Toe #1



Complete all of the multiplication problems. Look at the digit in the **ten thousands** column of each answer. If the digit is an even number, give that space an **X**, but if the digit is an odd number, give it an **O**. Any three **X**s or **O**s in a straight line wins.

$$\begin{array}{r} 445 \\ \times 659 \\ \hline \end{array}$$

$$\begin{array}{r} 308 \\ \times 750 \\ \hline \end{array}$$

$$\begin{array}{r} 913 \\ \times 404 \\ \hline \end{array}$$

$$\begin{array}{r} 862 \\ \times 600 \\ \hline \end{array}$$

$$\begin{array}{r} 823 \\ \times 328 \\ \hline \end{array}$$

$$\begin{array}{r} 447 \\ \times 709 \\ \hline \end{array}$$

$$\begin{array}{r} 924 \\ \times 156 \\ \hline \end{array}$$

$$\begin{array}{r} 703 \\ \times 905 \\ \hline \end{array}$$

$$\begin{array}{r} 121 \\ \times 989 \\ \hline \end{array}$$

Name _____ Date _____

Number Search



Solve each of the division problems. Locate and circle the answers in the number search below. (Answers run horizontally and vertically.)

$3,980 \div 5 =$ _____ $1,470 \div 6 =$ _____ $2,988 \div 4 =$ _____

$7,578 \div 9 =$ _____ $740 \div 2 =$ _____ $1,708 \div 7 =$ _____

$1,122 \div 3 =$ _____ $4,968 \div 8 =$ _____ $1,149 \div 3 =$ _____

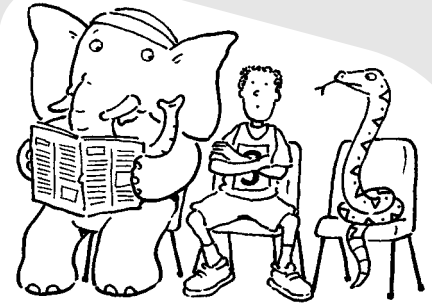
$3,563 \div 7 =$ _____ $4,835 \div 5 =$ _____ $4,614 \div 6 =$ _____

$2,552 \div 4 =$ _____ $3,429 \div 9 =$ _____ $3,816 \div 8 =$ _____

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

Name _____ Date _____

Break the Code



Why did the marathon runner go to see a veterinarian?

To break this code, solve each of the division problems. Then 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.

$847 \div 5 =$ M	$545 \div 6 =$ N	$706 \div 9 =$ A	$469 \div 3 =$ E
$964 \div 7 =$ D	$627 \div 8 =$ C	$943 \div 5 =$ V	$908 \div 6 =$ L
$473 \div 9 =$ S	$389 \div 3 =$ I	$763 \div 4 =$ H	$347 \div 8 =$ O
$761 \div 4 =$ P	$687 \div 7 =$ U	$477 \div 8 =$ R	$937 \div 7 =$ T

190 r3	156 r1
--------	--------

78 r3	43 r3	169 r2	190 r1	151 r2	78 r4	129 r2	90 r5	156 r1	137 r5
-------	-------	--------	--------	--------	-------	--------	-------	--------	--------

133 r6	190 r3	78 r4	133 r6
--------	--------	-------	--------

190 r3	129 r2	52 r5
--------	--------	-------

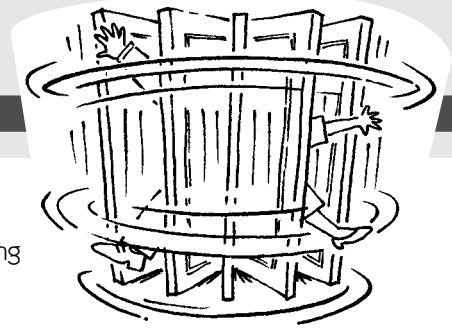
78 r3	78 r4	151 r2	188 r3	156 r1	52 r5
-------	-------	--------	--------	--------	-------

190 r3	98 r1	59 r5	133 r6
--------	-------	-------	--------

!

Name _____ Date _____

Crack the Code



Complete each of the division problems and find your answers in the code spaces.
Write the word from each problem in the matching answer space to solve the following riddle:

**Did you hear about the male and female who got stuck
in the revolving door?**

$3,782 \div 5 =$	$6,784 \div 9 =$	$2,105 \div 7 =$	$2,578 \div 4 =$
DAY	EACH	THIS	GOING
$6,841 \div 3 =$	$4,579 \div 2 =$	$6,005 \div 5 =$	$7,063 \div 9 =$
STILL	THEY	WITH	OTHER
$5,937 \div 8 =$	$6,034 \div 4 =$	$4,938 \div 6 =$	$2,978 \div 3 =$
VERY	AROUND	TO	ARE

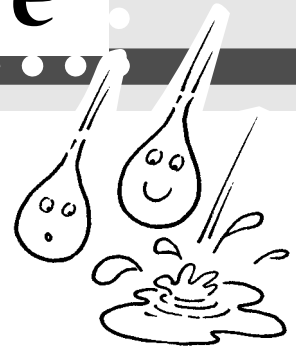
_____	_____	_____	_____
823	300 r 5	742 r 1	756 r 2
_____	_____	_____	_____
2,289 r 1	992 r 2	2,280 r 1	644 r 2
_____	_____	_____	_____
1,508 r 2	1,201	753 r 7	784 r 7

Name _____ Date _____

Water, Water Everywhere

**What can go under the water and over the water
and yet never touch the water?**

Divide each of these problems carefully and locate your answers in the code below.
Write the word from each problem in the matching answer space to solve the riddle.



$1,308 \div 7 =$ BRIDGE	$4,035 \div 9 =$ HER	$6,170 \div 8 =$ BUCKET
$4,030 \div 3 =$ A	$5,007 \div 5 =$ FULL	$6,304 \div 4 =$ WOMAN
$9,078 \div 8 =$ WATER	$3,804 \div 6 =$ A	$5,406 \div 2 =$ WITH
$7,630 \div 4 =$ YOUNG	$4,260 \div 3 =$ CROSSING	$3,720 \div 5 =$ ON
$6,406 \div 2 =$ OF	$3,900 \div 7 =$ A	$5,004 \div 9 =$ HEAD

634_____

1,907 r 2_____

1,576_____

1,420_____

1,343 r 1_____

186 r 6_____

2,703_____

557 r 1_____

1,001 r 2_____

771 r 2_____

3,203_____

1,134 r 6_____

744_____

448 r 3_____

556

Name _____ Date _____

Tic-Tac-Toe #2



Complete all of the division problems. If your remainder is an even number, give that space an **X**, but if your remainder is an odd number, give it an **O**. Any three **X**s or **O**s in a straight line wins.

$$23 \overline{) 13,480}$$

$$47 \overline{) 14,438}$$

$$61 \overline{) 30,507}$$

$$35 \overline{) 16,457}$$

$$50 \overline{) 29,154}$$

$$67 \overline{) 23,923}$$

$$74 \overline{) 18,651}$$

$$19 \overline{) 7,683}$$

$$87 \overline{) 19,665}$$

Name _____ Date _____

Match It



Use division to solve the problems below. Then locate the correct answer in the column on the right. Use a ruler or 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 question below.

After inventing lighter fluid, what happened to the inventor?

17,838 ÷ 24 = ●

● 382 r 2

21,422 ÷ 32 = ●

1

A

● 281 r 13

42,719 ÷ 84 = ●

4

H

O

● 406 r 8

14,136 ÷ 37 = ●

18,703 ÷ 19 = ●

6

F

A

● 150 r 22

● 342 r 32

22,744 ÷ 56 = ●

5

2

3

9

● 743 r 6

36,475 ÷ 43 = ●

8

7

W

L

● 848 r 11

4,222 ÷ 28 = ●

M

S

U

● 384 r 4

20,210 ÷ 59 = ●

10

11

● 508 r 47

11,815 ÷ 42 = ●

S

● 411 r 3

26,884 ÷ 70 = ●

12

E

● 984 r 7

25,485 ÷ 62 = ●

● 669 r 14

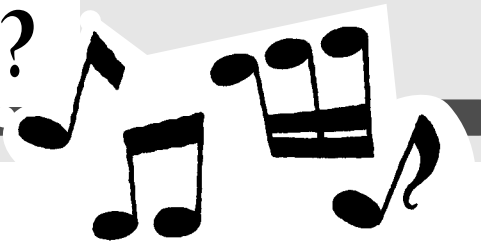
1	2
---	---

3	4	5
---	---	---

6	7	8	9	10	11	12
---	---	---	---	----	----	----

Name _____ Date _____

What Are There 76 Of?



The divisor in each of the following problems is 76. The multiples of 76, from 0 to 9, are listed below. Complete each of the problems carefully and locate your answer in the code box. Then fill in the matching letter to solve the riddle.

Multiples of 76	
$76 \times 0 = 0$	
$76 \times 1 = 76$	
$76 \times 2 = 152$	
$76 \times 3 = 228$	
$76 \times 4 = 304$	
$76 \times 5 = 380$	
$76 \times 6 = 456$	
$76 \times 7 = 532$	
$76 \times 8 = 608$	
$76 \times 9 = 684$	

N $76 \overline{) 5,978}$

M $76 \overline{) 3,947}$

R $76 \overline{) 2,776}$

O $76 \overline{) 9,304}$

O $76 \overline{) 6,037}$

E $76 \overline{) 8,172}$

S $76 \overline{) 2,137}$

T $76 \overline{) 1,993}$

B $76 \overline{) 3,676}$

26 r 17	36 r 40	122 r 32	51 r 71	48 r 28	79 r 33	78 r 50	107 r 40	28 r 9
---------	---------	----------	---------	---------	---------	---------	----------	--------

Name _____ Date _____

Tips for Dividing by 2, 3, and 4

2 A number is divisible by 2 if the number in the ones column is an even number: 0, 2, 4, 6, 8.

All of the following numbers can be divided by 2 and there is **no remainder**:

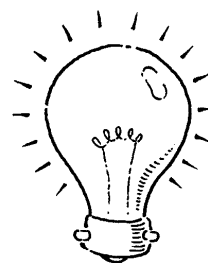
$$2 \overline{)538,478}$$

$$2 \overline{)594,796}$$

$$2 \overline{)65,566}$$

$$2 \overline{)39,004}$$

$$2 \overline{)459,972}$$



3 A number is divisible by 3 if the **sum of its digits** can be divided by 3.

For example:

$$3 \overline{)96}$$

$$9 + 6 = 15$$

15 can be divided evenly by **3**.

Therefore **96** can be divided evenly by **3**.

$$3 \overline{)495}$$

$$4 + 9 + 5 = 18$$

18 can be divided evenly by **3**.

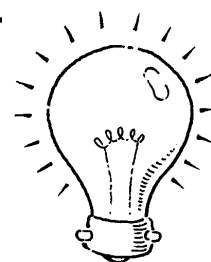
Therefore **495** can be divided evenly by **3**.

$$3 \overline{)79,404}$$

$$7 + 9 + 4 + 0 + 4 = 24$$

24 can be divided evenly by **3**.

Therefore **79,404** can be divided evenly by **3**.



4 A number is divisible by 4 if **its last two digits** are divisible by 4.

For example:

$$4 \overline{)58,720}$$

20 can be divided evenly by **4**.

Therefore **58,720** can be divided evenly by **4**.

$$4 \overline{)673,484}$$

84 can be divided evenly by **4**.

Therefore **673,484** can be divided evenly by **4**.

$$4 \overline{)30,036}$$

36 can be divided evenly by **4**.

Therefore **30,036** can be divided evenly by **4**.

Name _____ Date _____

Tips for Dividing by 5, 6, 8, and 9

5 A number is divisible by 5 **if the number ends in 0 or 5.**

All of the following numbers can be divided by 5 and there is **no remainder**:

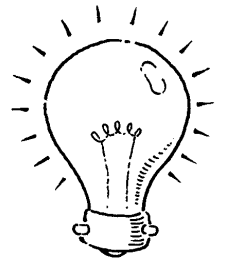
$$5 \overline{)490,05}$$

$$5 \overline{)6,875}$$

$$5 \overline{)47,385}$$

$$5 \overline{)96,060}$$

$$5 \overline{)79,500}$$



6 A number is divisible by 6 **if it is divisible by 2 and 3.**

For example: $6 \overline{)570}$

APPLY THE DIVISIBILITY RULE FOR 2: **570** can be divided evenly by 2 since it ends in 0.

APPLY THE DIVISIBILITY RULE FOR 3: $5 + 7 + 0 = 12$ **12** can be divided evenly by 3.

Therefore **570** can be divided evenly by 3.

Since 2 and 3 divide into 570 evenly, 6 can divide into 570 evenly.

8 A number is divisible by 8 **if the last three digits are divisible by 8.**

All of the following numbers can be divided by 8 and there is no remainder.

For example: $8 \overline{)796,800}$

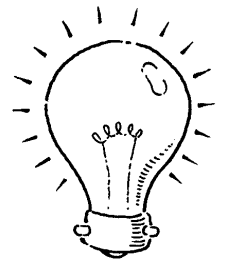
800 can be divided evenly by 8.

Therefore **796,800** can be divided evenly by 8.

$$8 \overline{)63,848}$$

848 can be divided evenly by 8.

Therefore **63,848** can be divided evenly by 8.



9 A number is divisible by 9 **if the sum of its digits can be divided by 9.**

For example:

$$9 \overline{)5,472}$$

$$5 + 4 + 7 + 2 = 18$$

18 can be divided evenly by 9.

Therefore **5,472** can be divided evenly by 9.

$$9 \overline{)364,725}$$

$$3 + 6 + 4 + 7 + 2 + 5 = 27$$

27 can be divided evenly by 9.

Therefore **364,725** can be divided evenly by 9.

Name _____ Date _____

No Remainders Please #1

Apply the divisibility rules found on page 26 to the following problems. **Determine which of the problems can be divided with no remainder. Then solve only those problems.** Write the words from the problems you've solved in the matching answer spaces below to find the answer to the following riddle:



Which of these two travels faster, heat or cold?

<p>YOU</p> $79,608 \div 2$	<p>HEAT</p> $2 \overline{) 90,076}$	<p>ANY</p> $6,943 \div 2$	<p>WITHOUT</p> $2 \overline{) 97,659}$	<p>TO</p> $2 \overline{) 36,740}$
<p>CATCH</p> $3 \overline{) 73,041}$	<p>IT</p> $97,422 \div 3$	<p>FURTHER</p> $3 \overline{) 7,775}$	<p>CAN</p> $48,846 \div 3$	<p>BECAUSE</p> $94,563 \div 3$
<p>HAS</p> $79,632 \div 4$	<p>COLD</p> $4 \overline{) 34,588}$	<p>SERIOUS</p> $79,643 \div 4$	<p>DISCUSSIONS</p> $4 \overline{) 59,461}$	<p>BE</p> $4 \overline{) 47,004}$

Answer

_____	_____	_____	_____	_____
32,474	19,908	18,370	11,751	45,038
_____	_____	_____	_____	_____
31,521	39,804	16,282	24,347	8,647

!

Name _____ Date _____

No Remainders Please #2



Apply the divisibility rules found on page 27 to the following problems. **Determine which of the problems can be divided with no remainder. Then solve only those problems.** Write the words from the problems you've solved in the matching answer spaces below to find the answer to the following riddle:

Why was the mother flea crying so loudly?

<p>DOGS</p> $5 \overline{) 96,300}$	<p>CHILDREN</p> $79,465 \div 5$	<p>EAGER</p> $5 \overline{) 40,396}$	<p>SQUIRMY</p> $34,678 \div 5$	<p>HUNGRY</p> $24,681 \div 5$	<p>HER</p> $6 \overline{) 7,956}$
<p>HAD</p> $15,822 \div 6$	<p>MOTHER</p> $6 \overline{) 40,075}$	<p>WAS</p> $78,004 \div 6$	<p>UPSET</p> $6 \overline{) 37,007}$	<p>REALLY</p> $23,513 \div 6$	<p>LITTLE</p> $8 \overline{) 65,488}$
<p>TO</p> $8 \overline{) 34,840}$	<p>THE</p> $8 \overline{) 70,816}$	<p>ALL</p> $9 \overline{) 94,563}$	<p>ONLY</p> $57,842 \div 9$	<p>GONE</p> $9 \overline{) 18,189}$	<p>RAPIDLY</p> $34,760 \div 9$

Answer

_____	_____	_____	_____	_____
10,507	1,326	8,186	15,893	2,637
_____	_____	_____	_____	_____
2,021	4,355	8,852	19,260	!

SOBBING

$44,437 \div 9$

FLEAS

$9 \overline{) 34,782}$

Name _____ Date _____

No Remainders Please #3



Apply the divisibility rules found on pages 26 and 27 to the following problems. **Determine which of the problems can be divided with no remainder. Then solve only those problems.**

Write the words from the problems you've solved in the matching answer spaces below to find the answer to the following riddle.



What did the mother flea say to her children?

$98,361 \div 3 = \underline{\hspace{2cm}} = \text{TAKE}$

$46,332 \div 4 = \underline{\hspace{2cm}} = \text{WE}$

$73,842 \div 6 = \underline{\hspace{2cm}} = \text{OURSELVES}$

$27,847 \div 2 = \underline{\hspace{2cm}} = \text{RUN}$

$97,648 \div 8 = \underline{\hspace{2cm}} = \text{DOG}$

$56,005 \div 5 = \underline{\hspace{2cm}} = \text{OR}$

$70,765 \div 4 = \underline{\hspace{2cm}} = \text{CAT}$

$182,736 \div 9 = \underline{\hspace{2cm}} = \text{A}$

$36,549 \div 9 = \underline{\hspace{2cm}} = \text{SHALL}$

$34,688 \div 2 = \underline{\hspace{2cm}} = \text{WALK}$

$34,050 \div 5 = \underline{\hspace{2cm}} = \text{FURRY}$

$66,692 \div 3 = \underline{\hspace{2cm}} = \text{JOG}$

$39,408 \div 8 = \underline{\hspace{2cm}} = \text{BY}$

$43,573 \div 6 = \underline{\hspace{2cm}} = \text{SPRINT}$

Answer

 4,061

 11,583

 17,344

 4,926

 12,307

 11,201

 32,787

 20,304

 6,810

 12,206

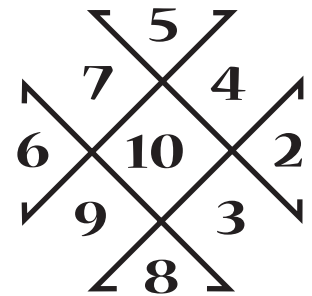
?


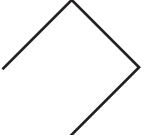
Name _____ Date _____

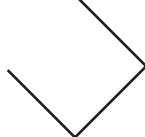
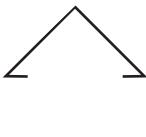
Shapely Math #2


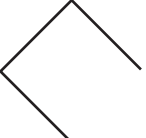
Study the shapes in equations 1–6. Each shape has only one match in the number grids at the right. Use the shapes to fill in the missing numbers in the equations. Solve each number sentence and find your answer in the Answer Box below.


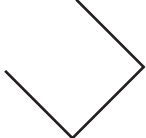
190	585	329
640	144	303
600	880	252

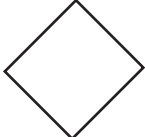



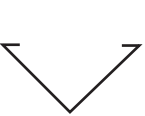
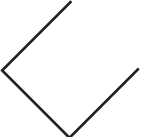
1. ($\boxed{190}$ \div  5) \times ($\boxed{}$ \div ) = _____

2. ($\boxed{}$ \div ) \times ($\boxed{}$ \div ) = _____

3. ($\boxed{}$ \div ) \times ($\boxed{}$ \div ) = _____

4. ($\boxed{}$ \div ) \times ($\boxed{}$ \div ) = _____

5. ($\boxed{}$ \div ) \times ($\boxed{}$ \div ) = _____

6. ($\boxed{}$ \div ) \times ($\boxed{}$ \div ) = _____

Hint
There are 3 answers in the Answer Box that you will not use.

ANSWER BOX		
3,600	4,212	3,760
2,599	7,482	8,360
2,470	5,080	2,424

Name _____ Date _____

Links



Solve each problem, working from left to right. When you finish a problem, locate the answer in the box below, and write the letter above the answer to solve the riddle.

Take **93** → Multiply by **64** → Subtract **350** → Divide by **6** = _____ = **W**

Take **7936** → Divide by **4** → Add **34** → Multiply by **7** = _____ = **E**

Take **950** → Subtract **266** → Multiply by **8** → Divide by **6** = _____ = **O**

Take **807** → Add **2,322** → Divide by **3** → Multiply by **8** = _____ = **L**

Take **375** → Divide by **5** → Multiply by **39** → Subtract **467** = _____ = **H**

Take **68** → Multiply by **49** → Divide by **4** → Add **1,257** = _____ = **L**

Take **4,394** → Add **3,342** → Divide by **8** → Subtract **72** = _____ = **S**

Take **3,940** → Subtract **978** → Add **588** → Divide by **8** = _____ = **T**

Take **71** → Add **2,934** → Divide by **5** → Multiply by **7** = _____ = **W**

Take **38** → Multiply by **88** → Divide by **4** → Add **427** = _____ = **A**

Of all the birds in the world, which one can be heard at every meal?

443 r 6	2,458	14,126

895	4,207	1,263	8,344	2,090	912	933 r 4

Name _____ Date _____

Follow the Arrows



Begin at the ☆. Solve the first multiplication problem and write your answer in the box directly below the problem. 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!

☆
$$\begin{array}{r} 7,962 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 4 \overline{) } \\ \hline \end{array}$$

$$\begin{array}{r} \\ - 79,632 \\ \hline \end{array}$$

$$\begin{array}{r} \\ 9 \overline{) } \\ \hline \end{array}$$

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

$$\begin{array}{r} 2,303 \\ \\ 9 \overline{) } \\ \hline \end{array}$$

☆
$$\begin{array}{r} \\ 8 \overline{) 76,848} \\ \hline \end{array}$$

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

$$\begin{array}{r} \\ - 37,833 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 172,178 \\ \\ 3 \overline{) } \\ \hline \end{array}$$

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

Name _____ Date _____

Lattice Multiplication

Lattice multiplication is a form of multiplication in which you use a grid like the one on the right. The example shows the problem 278×467 . Here's how to solve it.

First, multiply a number in the horizontal position by a number in the vertical position ($8 \times 4 = 32$). Notice how 32 is split into two parts by a diagonal line in the box that is placed at the intersection of the 8 column and the 4 row. Complete the rest of the horizontal and vertical multiplication to fill the rest of the grid.

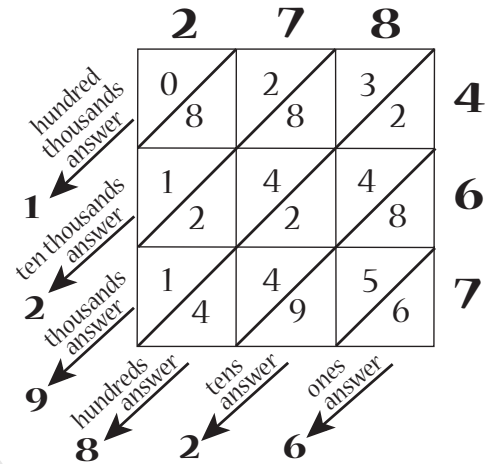
Second, beginning with the bottom number in the box at the bottom right (6), add the numbers in each diagonal column.

(Add only the numbers inside the grid.)

Write the answer under each column.

If your sum is greater than 9, use regrouping and add the carried number to the next column.

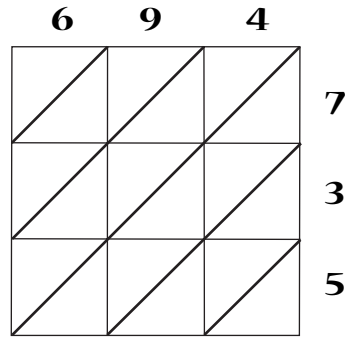
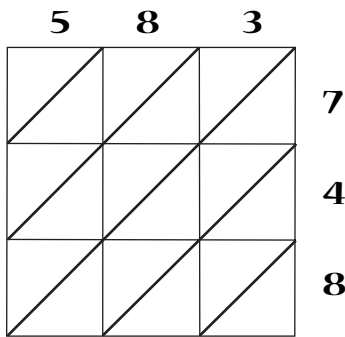
Third, find the answer to the original problem by reading the answer numbers outside the grid down and across. In this problem, the answer is 129,826.



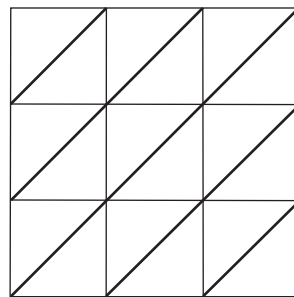
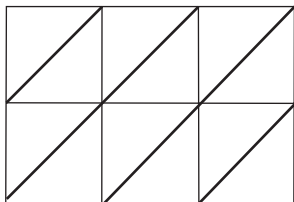
Hint
In the tens column there are three numbers to add: $9 + 5 + 8 = 22$. Since you can't write both digits in the tens place, you would write down the 2 ones and carry the 2 tens to add to the four numbers in the hundreds column.

Hint
In the ones column there's only one number, 6. Since $6 + 0 = 6$, you would write a 6 in the ones place.

Now try these problems.



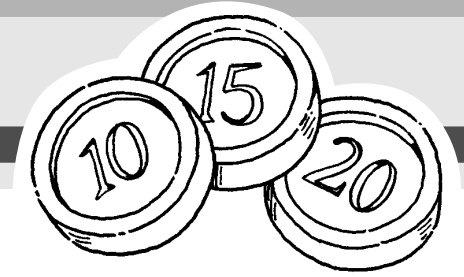
Make up two challenges by yourself.



Hint
Check your challenge problems for accuracy using standard multiplication.

Name _____ Date _____

Let's Play Bingo



Solve the problems below and locate your answers in the bingo grid. Circle the answers you find in the grid. Any five answers in a line horizontally, vertically, or diagonally is a BINGO.

1. $(35 \div 5) - (63 \div 9) =$ _____
2. $(12 \times 10) - (12 \times 5) =$ _____
3. $(33 \div 3) \times (24 \div 4) =$ _____
4. $48 \div (2 \times 2 \times 2) =$ _____
5. $(21 \div 3) + (5 \times 9) =$ _____
6. $(50 \div 5) \times 10 =$ _____
7. $(24 + 12) \div 9 =$ _____
8. $(32 \div 4) + (42 \div 6) =$ _____
9. $72 \div (1 \times 3 \times 3) =$ _____
10. $(81 \div 9) \div (27 \div 9) =$ _____
11. $(60 \div 5) \div (2 \times 3) =$ _____
12. $(24 \div 6) \div (28 \div 7) =$ _____
13. $(8 \times 5) \div (32 \div 4) =$ _____
14. $49 \div (14 \div 2 \times 1) =$ _____
15. $(3 \times 12) + (36 \div 9) =$ _____

B I N G O				
2	6	60	16	40
52	9	48	0	32
1	12	100	7	3
20	15	8	81	27
5	64	54	4	66

Name _____ Date _____

Riddle Time



What did the angry baker say to her husband?

Complete the problems below to solve this riddle. Write the letter from each problem in the matching code box below. If the answer appears in more than one box, fill in each one with the same letter.

$(8 \times 8) + 4 = \mathbf{A}$	$\mathbf{A} =$	$(5 \times \mathbf{M}) + 9 = 44$	$\mathbf{M} =$
$(\mathbf{V} \times 6) + 5 = 41$	$\mathbf{V} =$	$(8 \times 4) + 8 = \mathbf{D}$	$\mathbf{D} =$
$(9 \times 8) + 3 = \mathbf{O}$	$\mathbf{O} =$	$(6 \times 7) + \mathbf{N} = 45$	$\mathbf{N} =$
$(7 \times \mathbf{Y}) + 7 = 35$	$\mathbf{Y} =$	$(5 \times 8) + 6 = \mathbf{P}$	$\mathbf{P} =$
$(4 \times 9) + 3 = \mathbf{Z}$	$\mathbf{Z} =$	$(\mathbf{L} \times 3) + 7 = 34$	$\mathbf{L} =$
$(8 \times 7) + \mathbf{I} = 64$	$\mathbf{I} =$	$(3 \times 7) + 7 = \mathbf{R}$	$\mathbf{R} =$
$(6 \times 9) + 9 = \mathbf{G}$	$\mathbf{G} =$	$(7 \times 7) + 8 = \mathbf{E}$	$\mathbf{E} =$

$(\mathbf{U} \times 3) + 10 = 25$

$\mathbf{U} =$

	,	
8		7

28	57	68	9	9	4	

63	75	3	3	68

63	8	6	57

4	75	5

68

46	8	39	39	68

7	4

7	8	3	40

!

Name _____ Date _____

Order of Operations



Solve the following problems to solve this riddle. Write the letter from each problem in the matching code box below. If the answer appears in more than one box, fill in each one with the same letter.

C = $(45 - 5) \div (16 \div 2) \times (9 \div 3)$ = _____

M = $(25 \div 5) \times (36 \div 6) \div (100 \div 10)$ = _____

T = $(27 \div 9) \times (15 \div 5) \times (2 \times 1)$ = _____

U = $(5 + 2) \times (50 \div 10) \div (49 \div 7)$ = _____

A = $(63 \div 9) \times (16 \div 4) \div (10 \div 5)$ = _____

L = $(56 \div 7) \div (10 \div 5) \times (30 \div 6)$ = _____

O = $(3 \times 5) \div (45 \div 9) \times (21 \div 3)$ = _____

N = $(54 \div 6) \times (8 \div 2) \div (12 \div 2)$ = _____

Y = $(45 \div 9) \times (24 \div 3) \div (20 \div 5)$ = _____

R = $(48 \div 6) \div (4 \div 2) \times (16 \div 4)$ = _____

I = $(4 \times 9) \div (28 \div 7) \times (12 \div 4)$ = _____

E = $(15 - 3) \div (9 \div 3) \times (30 \div 10)$ = _____

What did the adding machine say to the cashier?

10	21	5
----	----	---

15	14	6
----	----	---

15	12	16	18	14	27	6	20	10
----	----	----	----	----	----	---	----	----

15	21	5	6	18
----	----	---	---	----

21	6
----	---

3	12
---	----

Name _____

Date _____

Code Breaker



Solve the problems below to solve the riddle. Write the letter from each problem in the matching code box below. If the answer appears in more than one box, fill in each one with the same letter.

$(9 \times 8) + 3 = \mathbf{M}$	$\mathbf{M} =$	$4 + (6 \times \mathbf{P}) = 34$	$\mathbf{P} =$
$(7 \times \mathbf{S}) + 9 = 37$	$\mathbf{S} =$	$(7 \times 7) + 7 = \mathbf{I}$	$\mathbf{I} =$
$7 + (6 \times 8) = \mathbf{A}$	$\mathbf{A} =$	$(3 \times 3) + \mathbf{D} = 15$	$\mathbf{D} =$
$8 + (\mathbf{L} \times 4) = 40$	$\mathbf{L} =$	$(9 \times 9) + \mathbf{B} = 91$	$\mathbf{B} =$
$(4 \times 9) + 9 = \mathbf{N}$	$\mathbf{N} =$	$12 + (8 \times \mathbf{W}) = 12$	$\mathbf{W} =$
$(8 \times \mathbf{H}) + 5 = 29$	$\mathbf{H} =$	$8 + (3 \times 9) = \mathbf{Y}$	$\mathbf{Y} =$
$\mathbf{T} + (3 \times 6) = 25$	$\mathbf{T} =$	$(4 \times \mathbf{R}) + 8 = 16$	$\mathbf{R} =$
$8 + (7 \times \mathbf{O}) = 71$	$\mathbf{O} =$	$6 + (6 \times 9) = \mathbf{U}$	$\mathbf{U} =$
$3 + (2 \times 5) = \mathbf{E}$	$\mathbf{E} =$	$(5 \times 8) + \mathbf{G} = 52$	$\mathbf{G} =$

What did the polite bee say to the flower?

3	56	10	60	6	!	5	8	13	55	4	13	7	13	8	8
75	13	0	3	13	45	35	9	60	55	2	13				
5	8	55	45	45	56	45	12	7	9	9	5	13	45	60	5

Name _____ Date _____

Word Problems #1



Write your answer to each problem in the space provided. Locate your answer in the number search below. (Answers run horizontally and vertically.)

1. Maria is a voracious reader who reads two books each month. If the average length of two books is 514 pages, how many pages will she have read in one year's time? = _____

2. Section E of the baseball stadium has 25 rows with 40 seats in each row. How many fans can Section E hold? = _____

3. A traveling salesman covers a distance of 350 miles each day. He works from Monday to Friday only. How many miles will he travel in two weeks? = _____

4. A total of 34 students participated in a running club. After eight weeks of running, everyone had passed the 50-mile mark. What was the total distance covered by the entire group? = _____

5. On the busy Thanksgiving weekend, one of the customs officers at the U.S.-Canada border crossing interviewed 119 drivers each hour. How many travelers would have been interviewed in a 24-hour period? = _____

6. A bricklayer was hired to do the brick work on a warehouse wall that had no doors or windows. He calculated that he would need 298 bricks for the entire bottom row. If his calculations showed that he would need 46 rows, how many bricks would be used on this building project? = _____

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

Name _____ Date _____

Word Problems #2



Write the answer to each problem in the space provided. Then write the word that is next to your answer in the matching code box below. Answer all the questions until you have decoded the following riddle:

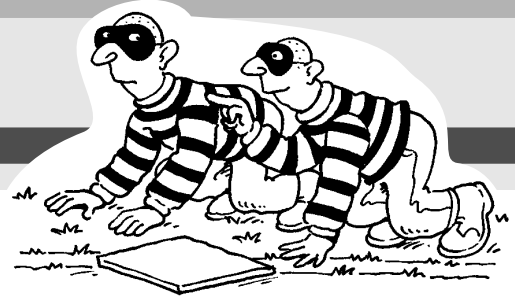
Why does Betsy the Cow wear a bell?

- The Year's Best Chewing Gum Awards are always attended by 4,200 bubble-blowing fans. If there are 25 seats in each row of the auditorium, how many rows of seats are needed to accommodate all of the fans? = _____ = **HER**
- Jamal and his classmates are participating in a reading club. The club will only run for two full weeks. Since Jamal's goal is to read 1,540 pages, how many pages will he need to read each day in order to achieve his goal? = _____ = **WORK**
- Orange juice producers have determined that it takes approximately 14 oranges to make a carton of orange juice. Since each tree yields about 5,530 oranges, how many cartons of juice would be made? = _____ = **HORNS**
- Eight friends had been collecting baseball, football, and hockey cards for three years. In total they amassed 11,552 cards. Because three of them were moving, they decided to divide the cards up evenly. What would each friend's share of cards be? = _____ = **SIMPLY**
- The Indianapolis 500 Speedway attracted 13,920 racecar fans. After the race, the spectators were leaving the parking lot at a rate of 58 cars per minute. How many minutes would it take for all of the cars to leave the parking lot? = _____ = **DON'T**
- A huge company picnic was attended by the employees and their families. The organizers purchased 1,587 hamburgers, assuming each person would eat three hamburgers. How many people were they hoping to have at the picnic? = _____ = **BECAUSE**

1,444	529	168
395	240	110

Name _____ Date _____

Word Problems #4



Write the answer to each problem in the space provided. Then write the word that is next to your answer in the matching code box below. Answer all the questions until you have decoded the following riddle.

Why did the gang of thieves try to steal the baseball field?

- If an estimated 15,000 cars crossed the Golden Gate Bridge within the first 15 minutes of a busy weekend, and the rate was maintained for a full hour, how many cars would have crossed the bridge? = _____ = **WORLD**
- The traffic flow on the Golden Gate Bridge during rush hour was 33,000 cars for each 15-minute period for a full hour. How many cars crossed the bridge? = _____ = **THE**
 How many more cars crossed the bridge during rush hour than during the busy weekend mentioned in question one above? = _____ = **BIGGEST**
- The hourly traffic flow over the Golden Gate Bridge on four busy weekends was 102,836 cars; 123,709 cars; 355,200 cars; and 341,115 cars. What was the average number of cars to go over the bridge during the one-hour time span? = _____ = **THE**
- A sightseeing boat had a very busy month of July. Each day the boat went out on three excursions with 50 people on board per trip. How many people did the sightseeing boat carry during the month of July if it went out every single day? = _____ = **IN**
- Another sightseeing boat went out on Thursday, Friday, Saturday, and Sunday only. This boat made four trips per day with 35 people on board each time. How many people did they carry in one week? = _____ = **DIAMOND**
 How many were carried over 20 days of sightseeing trips? = _____ = **IT**
- Twenty-four thousand, six hundred eighty logs were sent down the river to the lumber mill. All of these logs were cut down by a crew of 20 loggers over a period of two months. What was the average number of logs cut by each lumberjack? = _____ = **ENTIRE**
 If each log had a value of \$79, how much would all of the logs be worth? = _____ = **HAD**

2,800	\$1,949,720	230,715
72,000	560	4,650
132,000	1,234	60,000 •

ANSWER KEY

HOT! HOT! HOT! (p. 6)

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

WHAT A MIX-UP (p. 7)

x	7	4	6	3
5	35	20	30	15
2	14	8	12	6
8	56	32	48	24
9	63	36	54	27

x	4	9	2	6
3	12	27	6	18
8	32	72	16	48
5	20	45	10	30
7	28	63	14	42

x	2	5	4	3
6	12	30	24	18
5	10	25	20	15
7	14	35	28	21
9	18	45	36	27

x	6	9	8	3
3	18	27	24	9
7	42	63	56	21
4	24	36	32	12
5	30	45	40	15

ANXIOUS MOTHER (p. 8)

First column: 12, 32, 45, 56, 42, 30, 72, 48, 20, 21, 4

Second column: 18, 24, 25, 35, 27, 28, 81, 14, 36, 40, 63

Question: *Why was the mother ghost worried about her little son?*
 Answer: *He always seemed to be in such great spirits all the time.*

LIMERICK FUN (p. 9)

G 24	K 18	U 42	A 21
I 16	T 30	F 56	M 12
W 27	L 60	D 36	H 0
Y 45	N 4	R 28	C 49
P 20	E 81	O 35	S 32
	J 6		

*There was a young man from Leeds
 Who swallowed a packet of seeds
 Within just one hour
 His nose was a flower
 And his head was a mess of weeds.*

EQUAL VALUES (p. 10)

72	96	102	196	100
120	104	240	176	180
156	170	117	171	450
372	188	198	144	280

180	196	176	156	96
188	240	72	117	104
450	102	170	372	198
280	100	144	120	171

Why did the comedian's wife file for divorce?
The comedian's wife said, while sobbing, that her funny husband was trying to joke her to death all the time!

G'DAY (p. 11)

Y 3640	N 2781	O 2772
I 4648	A 2,229	R 1960
G 4410	H 3988	C 2290
D 1782	V 6156	S 7144
W 1224	M 5572	E 912

What did the clockmaker say to all of his good friends?
Every morning we rise and chime!

CROSS NUMBER PUZZLE (p. 12)

Across:
 1. 2,930 2. 5,928 3. 4,794
 5. 2,034 7. 3,265 9. 2,988
 10. 6,600

Down:
 1. 2,984 2. 5,222 4. 4,872
 6. 3,220 7. 3,896 8. 5,640

CROSS THEM OUT (p. 13)

1. 30,576 2. 39,496 3. 44,849
 4. 21,027 5. 20,750 6. 27,450
 7. 23,200 8. 68,453 9. 49,440

Why did the service station mechanic always dress in disguise?
He always wished to be a secret service man.

SHAPELY MATH #1 (p.14)

- $(65 \times 75) - (47 \times 30) = 3,465$
- $(32 \times 42) + (68 \times 27) = 3,180$
- $(55 \times 19) + (90 \times 80) = 8,245$
- $(78 \times 37) - (24 \times 66) = 1,302$
- $(81 \times 51) + (65 \times 75) = 9,006$
- $(90 \times 66) - (78 \times 30) = 3,600$

POLITENESS PLEASE (p. 15)

Across:
 1. 43,288 4. 15,312 6. 56,334
 7. 39,480 8. 65,952
 Down:
 1. 46,800 2. 29,154 3. 34,368
 5. 19,342 6. 57,822

To prove he was a gentleman, what did the ram say to his girlfriend?
After ewe.

LAST NUMBER—

FIRST NUMBER (p. 16)
 1. 32,524 2. 43,772 3. 25,234
 4. 47,965 5. 57,486 6. 67,166
 7. 67,252 8. 24,346 9. 6,244
 10. 41,819 11. 91,826 12. 60,600

What did the circus owner shout at his human cannonball?
"You're fired!!!"

TIC-TAC-TOE (p. 17)

293,255	231,000	368,852
O	O	X
517,200	269,944	316,923
O	X	O
144,144	636,215	119,669
X	O	O

NUMBER SEARCH (p. 18)

- 796
- 245
- 747
- 842
- 370
- 244
- 374
- 621
- 383
- 509
- 967
- 769
- 638
- 381
- 477

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

BREAK THE CODE (p. 19)

M:169 r2	N:90 r5	A:78 r4	E:156 r1
D:137 r5	C:78 r3	V:188 r3	L:151 r2
S:52 r5	I:129 r2	H:190 r3	O:43 r3
P:190 r1	U:98 r1	R:59 r5	T:133 r6

Why did the marathon runner go to see a veterinarian?
He complained that his calves hurt!

CRACK THE CODE (p. 20)

756 r2	753 r7	300 r5	644 r2
2280 r1	2289 r1	1201	784 r7
742 r1	1508 r2	823	992 r2

Did you hear about the male and female who got stuck in the revolving door?
To this very day they are still going around with each other.

WATER, WATER EVERYWHERE (p. 21)

186 r6	448 r3	771 r2
1343 r1	1001 r2	1576
1134 r6	634	2703
1907 r2	1420	744
3203	557 r1	556

What can go under the water and over the water and yet never touch the water?
A young woman crossing a bridge with a full bucket of water on her head

TIC-TAC-TOE #2 (p. 22)

586 r 2 X	307 r 9 O	500 r 7 O
470 r 7 O	583 r 4 X	357 r 4 X
252 r 3 O	404 r 7 O	226 r 3 O

REMAINDERS (p. 23)

- ACROSS 803 r *ten*
- DOWN 562 r *twelve*
- DOWN 837 r *seventy*
- ACROSS 384 r *eleven*
- ACROSS 630 r *twenty*
- DOWN 493 r *two*
- DOWN 773 r *thirty*
- ACROSS 406 r *sixty*
- DOWN 379 r *five*
- ACROSS 784 r *three*
- DOWN 724 r *eight*
- ACROSS 244 r *fifty*

What can pierce your ears without leaving a hole?
Noise

MATCH IT (p. 24)

- | | | |
|-------------|-------------|--------------|
| 1. 743 r 6 | 5. 984 r 7 | 9. 342 r 32 |
| 2. 669 r 14 | 6. 406 r 8 | 10. 281 r 13 |
| 3. 508 r 47 | 7. 848 r 11 | 11. 384 r 4 |
| 4. 382 r 2 | 8. 150 r 22 | 12. 411 r 3 |

After inventing lighter fluid, what happened to the inventor?
He was flamous.

WHAT ARE THERE 76 OF? (p. 25)

- | | | |
|------------|-----------|------------|
| N 78 r 50 | M 51 r 71 | R 36 r 40 |
| O 122 r 32 | O 79 r 33 | E 107 r 40 |
| S 28 r 9 | T 26 r 17 | B 48 r 28 |

Trombones

NO REMAINDERS PLEASE #1 (p. 28)

39,804	45,038	X	X	18,370
24,347	32,474	X	16,282	31,521
19,908	8,647	X	X	11,751

Which of these two travels faster, heat or cold?
It has to be heat because you can catch cold!

NO REMAINDERS PLEASE #2 (p. 29)

19,260	15,893	X	X	X	1,326
2,637	X	X	X	X	8,186
4,355	8,852	10,507	X	2,021	X
			X	X	

Why was the mother flea crying so loudly?
All her little children had gone to the dogs!

NO REMAINDERS PLEASE #3 (p. 30)

- | | |
|-----------|------------|
| 1. 32,787 | 8. 11,583 |
| 2. 12,307 | 9. X |
| 3. 12,206 | 10. 11,201 |
| 4. X | 11. 20,304 |
| 5. 4,061 | 12. 17,344 |
| 6. 6,810 | 13. X |
| 7. 4,926 | 14. X |

What did the mother flea say to her children?
Shall we walk by ourselves or take a furry dog?

SHAPELY MATH #2 (p. 31)

- $(190 \div 5) \times (585 \div 9) = 2,470$
- $(329 \div 7) \times (640 \div 8) = 3,760$
- $(144 \div 6) \times (303 \div 3) = 2,424$
- $(600 \div 6) \times (252 \div 7) = 3,600$
- $(880 \div 10) \times (190 \div 2) = 8,360$
- $(585 \div 5) \times (144 \div 4) = 4,212$

LINKS (p. 32)

- | | |
|-------------|-------------|
| W = 933 r 4 | L = 2,090 |
| E = 14,126 | S = 895 |
| O = 912 | T = 443 r 6 |
| L = 8,344 | W = 4,207 |
| H = 2,458 | A = 1,263 |

Of all the birds in the world, which one can be heard at every meal?
The swallow

FOLLOW THE ARROWS (p. 33)

- ☆ 334,404 ➡ 83,601 ➡ 3,969 ➡ 441
 ➡ 20,727 ➡ 2,303
- ☆ 9,606 ➡ 38,424 ➡ 591 ➡ 22,458
 ➡ 7,486 ➡ 172,178

SUPER CODE (p. 34)

- | | |
|------------|------------|
| P = 1,470 | R = 1,596 |
| N = 503 | I = 34,684 |
| K = 46,276 | E = 531 |
| C = 1,126 | D = 1,093 |
| U = 377 | M = 6,108 |
| A = 92 | T = 31,010 |
| L = 1,231 | B = 1,117 |

How do you get a squirrel to leave a tree?
Climb up a tree and act like a nut!

THE ULTIMATE MULTIPLICATION CHALLENGE (p. 35)

Answer: 228,879,899,991,225

What kind of special table has no legs?

Timetable

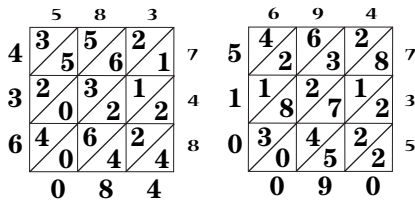
THE SUPREME DIVISION CHALLENGE (p. 36)

Answer: 55,746,756

If twenty eggs cost fifty-one cents, how many eggs can you buy for a cent and two quarters?

Twenty eggs

LATTICE MULTIPLICATION (p. 37)

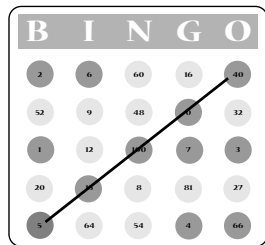


$583 \times 748 = 436,084$

$694 \times 735 = 510,090$

Answers will vary for student-created problems.

LET'S PLAY BINGO (p. 38)



- 1. 0 2. 60 3. 66
- 4. 6 5. 52 6. 100
- 7. 4 8. 15 9. 8
- 10. 3 11. 2 12. 1
- 13. 5 14. 7 15. 40

RIDDLE TIME (p. 39)

- A = 68 M = 7
- V = 6 D = 40
- O = 75 N = 3
- Y = 4 P = 46
- Z = 39 L = 9
- I = 8 R = 28
- G = 63 E = 57
- U = 5

What did the angry baker say to her husband?

I'm really gonna give you a pizza my mind!

ORDER OF OPERATIONS (p. 40)

- C = 15
- M = 3
- T = 18
- U = 5
- A = 14
- L = 20
- O = 21
- N = 6
- Y = 10
- R = 16
- I = 27
- E = 12

What did the adding machine say to the cashier?

You can certainly count on me.

CODE BREAKER (p. 41)

- M = 75 P = 5
- S = 4 I = 56
- A = 55 D = 6
- L = 8 B = 10
- N = 45 W = 0
- H = 3 Y = 35
- T = 7 R = 2
- O = 9 U = 60
- E = 13 G = 12

What did the polite bee say to the flower?

Hi bud! Please tell me when you are planning to open up.

WORD PROBLEMS #1 (p. 42)

- 1. 6,168
- 2. 1,000
- 3. 3,500
- 4. 1,700
- 5. 2,856
- 6. 13,708

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

WORD PROBLEMS #2 (p. 43)

- 1. 168
- 2. 110
- 3. 395
- 4. 1,444
- 5. 240 minutes or 4 hours
- 6. 529

Why does Betsy the cow wear a bell?

Simply because her horns don't work.

WORD PROBLEMS #3 (p. 44)

- 1. 3,600–Speedy Express;
3,250–P.S. Post;
350–The Speedy Express driver travels farther.
- 2. 306
- 3. \$13,188
- 4. \$8,800
- 5. \$2,904
- 6. \$7,704; no

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

What is much heavier during the summer months than in winter?

The constant traffic flow heading to the sunny beach

WORD PROBLEMS #4 (p. 45)

- 1. 60,000
- 2. 132,000; 72,000
- 3. 230,715
- 4. 4,650
- 5. 560; 2,800
- 6. 1,234; \$1,949,720

Why did the gang of thieves try to steal the baseball field?

It had the biggest diamond in the entire world.