A decorative border consisting of a repeating pattern of stylized sun-like icons with rays, arranged in a rectangular frame around the central text.

# 4th Grade Summer Packet

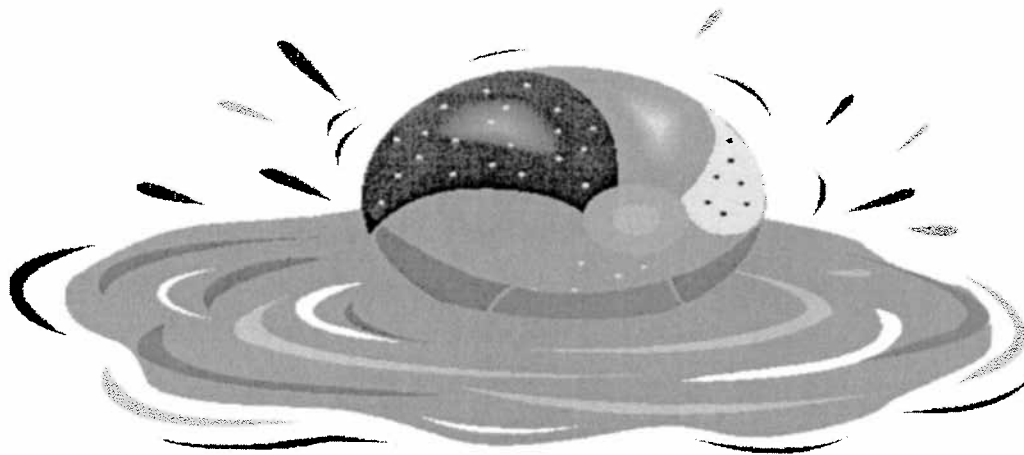
MATHEMATICS

Name \_\_\_\_\_

### About this Packet

There are 9 different sections in this packet. For each section, there are examples. Below are the 9 sections and their topics.

<b>Section</b>	<b>Topic</b>
A	Basic Multiplication
B	Numbers in Different Forms
C	Rounding
D	Adding and Subtracting
E	Using Operations
F	Word Problems
G	Area and Perimeter
H	Comparing Fractions
I	Creating Word Problems



## A.) Basic Multiplication

Examples:

$8 \times 8 = 64$

$6 \times 2 = 12$

$7 \times 5 = 35$

Complete the table:

	Answer		Answer
$9 \times 8$		$1 \times 6$	
$7 \times 6$		$7 \times 8$	
$3 \times 3$		$4 \times 9$	
$4 \times 8$		$5 \times 5$	
$1 \times 12$		$8 \times 2$	
$2 \times 6$		$6 \times 6$	
$9 \times 9$		$12 \times 9$	
$7 \times 7$		$5 \times 9$	
$5 \times 8$		$2 \times 2$	
$6 \times 3$		$6 \times 9$	
$12 \times 12$		$6 \times 11$	
$11 \times 7$		$8 \times 3$	
$5 \times 2$		$3 \times 11$	
$8 \times 8$		$9 \times 6$	
$12 \times 6$		$12 \times 8$	
$2 \times 3$		$1 \times 1$	

## B.) Numbers in Different Forms

Examples:

Base 10 Numeral Form: 357,925

Expanded Form:  $300,000 + 50,000 + 7,000 + 900 + 20 + 5$

Number Name: Three hundred fifty-seven thousand,  
nine hundred twenty-five.

Complete the table:

Base 10 Numeral Form	Expanded Form	Number Name
873,281		
	$30,000 + 7,000 + 200 + 10 + 1$	
		Five hundred three thousand, two hundred thirty eight
	$900,000 + 1,000 + 600 + 50 + 3$	
		Forty-seven thousand, twenty-six
402,500		
	$700,000 + 60,000 + 300 + 10 + 8$	

## C.) Rounding

Examples: Round to the underlined digit.

483: rounds to 480 because it is closer to 480 than to 490

82,940: rounds to 83,000 because it is closer to 83,000 than 82,000

Complete the table:

Round to the nearest...			
	Tens Place	Hundreds Place	Thousands Place
72,854			
424,628			
73,659			
721,452			
64,669			
84,816			

## D.) Adding and Subtracting

Examples: Solve.

$$\begin{array}{r} 2,374 \\ + 1,816 \\ \hline 4,190 \end{array}$$

$$\begin{array}{r} 23,715 \\ - 5,237 \\ \hline 18,478 \end{array}$$

Solve.

$\begin{array}{r} 64,815 \\ + 2,819 \\ \hline \end{array}$	$\begin{array}{r} 574 \\ + 23,854 \\ \hline \end{array}$	$\begin{array}{r} 123,084 \\ - 85,304 \\ \hline \end{array}$	$\begin{array}{r} 100,530 \\ - 26,184 \\ \hline \end{array}$
$\begin{array}{r} 907 \\ + 12,838 \\ \hline \end{array}$	$\begin{array}{r} 346,008 \\ - 104,843 \\ \hline \end{array}$	$\begin{array}{r} 6,182 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 1,699 \\ + 111 \\ \hline \end{array}$
$\begin{array}{r} 91,328 \\ - 45,850 \\ \hline \end{array}$	$\begin{array}{r} 712,603 \\ - 47,994 \\ \hline \end{array}$	$\begin{array}{r} 324 \\ + 54,127 \\ \hline \end{array}$	$\begin{array}{r} 299,237 \\ + 49,974 \\ \hline \end{array}$
$\begin{array}{r} 47,268 \\ - 38,679 \\ \hline \end{array}$	$\begin{array}{r} 750,359 \\ + 204,775 \\ \hline \end{array}$	$\begin{array}{r} 40,084 \\ - 23,749 \\ \hline \end{array}$	$\begin{array}{r} 3,600 \\ - 1,867 \\ \hline \end{array}$

## E.) Using Operations

Examples: Find the missing number that will make each equation true.

$46 + \underline{35} = 81$

$92 - \underline{55} = 37$

$16 \times \underline{5} = 80$

$136 \div \underline{34} = 4$

Find the missing number that will make each equation true.

$85 + \underline{\quad} = 101$	$64 - \underline{\quad} = 9$	$47 \times \underline{\quad} = 282$	$96 \div \underline{\quad} = 3$
$\underline{\quad} + 34 = 51$	$\underline{\quad} - 14 = 68$	$\underline{\quad} \times 18 = 72$	$\underline{\quad} \div 15 = 8$
$67 + \underline{\quad} = 182$	$85 - \underline{\quad} = 12$	$36 \times \underline{\quad} = 144$	$328 \div \underline{\quad} = 8$
$\underline{\quad} \times 7 = 343$	$\underline{\quad} \div 29 = 7$	$37 + \underline{\quad} = 92$	

## F.) Word Problems

Use addition, subtraction, multiplication, and division to solve the word problems.

1.	Marley, Yareli, and Andrea each have a jar of pennies. Marley has 8 times as many pennies as Yareli. Yareli has 24. Andrea has 14 fewer pennies than Marley. How many pennies does Andrea have?
2.	Bela and Morgan are competing to see who can sell more boxes of cookies. Each box costs \$6. Bela sold 22 boxes. If Morgan made \$18 more than Bela, how many boxes did Morgan sell?
3.	The students in Mrs. Soza's class are trying to read at least 1,000 pages in 1 week. There are 27 students in her class. If each student reads one book that is 45 pages long, will they have read at least 1,000 pages?
4.	Mr. Morrow is buying one book for every student in his school. There are 95 sixth graders, 102 seventh graders, and 98 eight graders. The books come in boxes with 9 books in each box. How many boxes of books does Mr. Morrow need to buy?



5.	In the TeSA parking lot there are 6 trucks, 11 SUVs, and 14 cars. If each vehicle has 4 tires, how many tires are there in the parking lot?
6.	Vivian was sharing her M&Ms with her 12 friends. If each friend got 3 blue, 7 red, 6 yellow, and 7 green, how many M&Ms did Vivian share altogether?
7.	Noah is a truck driver that drives across the country. On average, he drives about 485 miles a day. How many miles will he drive in 7 days?
8.	Piper has a rectangular patch in her backyard that she is going to tile. If the length of her patch is 8 tiles and she uses 208 tiles altogether, what is the width of her patch?
9.	Maddie, Emma, and Aloni were each working on their math homework. Their homework consisted of 14 rows with 4 problems in each row. After 10 minutes, Maddie had finished 3 full rows. Aloni finished 2 more rows than Maddie. Emma finished 3 fewer problems than Aloni. How many more problems did Emma finish than Maddie?

## G.) Area and Perimeter

Examples:

Area = Length x width

Perimeter = add all side

Length: 38

Width: 16

Find:

Area:  $38 \times 16 = 608$

Perimeter:  $38 + 16 + 38 + 16 = 108$

Find the measurements of each rectangle

Length: 72 Width: 93  <u>Find</u> Area: _____  Perimeter: _____	Length: 541 Width: 6  <u>Find</u> Area: _____  Perimeter: _____
Length: 8 Width: 129  <u>Find</u> Area: _____  Perimeter: _____	Length: 46 Width: 37  <u>Find</u> Area: _____  Perimeter: _____
Length: 38 Perimeter: 80  <u>Find</u> Area: _____  Perimeter: _____	Length: 6 Width: 24  <u>Find</u> Area: _____  Perimeter: _____

## H.) Comparing Fractions

Examples:

Write either  $>$ ,  $=$ , or  $<$  to represent the relationship between two fractions.

$$\overset{28}{\frac{4}{8}} < \overset{48}{\frac{6}{7}}$$

$$\overset{40}{\frac{5}{6}} < \overset{42}{\frac{7}{8}}$$

\*Cross multiply. Write the number at the top. Which number is larger? That is the largest fraction!\*

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

## I.) Creating Word Problems

Create 8 different word problems. There must be 2 addition, 2 subtraction, 2 multiplication, and 2 division problems.

Solve the problem and box your answer.

1.	
2.	
3.	
4.	

5.	
6.	
7.	
8.	
9.	