

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chapter 1: Place Value, Addition & Subtraction

*Place Value*

Millions	Thousands			Units		
millions	hundred thousands	one thousands	thousands	hundreds	tens	ones
1	5	6	4	7	9	8

**+** **-**  
ADDITION  
SUBTRACTION

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Lesson #1

## Place Value to Billions

### I. Standard Form – Write the number in standard form.

<p style="text-align: center;"><b>Eighty-six billion, twelve thousand, four hundred sixty</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">BILLIONS</th> <th colspan="3">MILLIONS</th> <th colspan="3">THOUSANDS</th> <th colspan="3">ONES</th> </tr> <tr> <th>HUNDRED</th><th>TEN</th><th>BILLIONS</th> <th>HUNDRED</th><th>TEN</th><th>MILLIONS</th> <th>HUNDRED</th><th>TEN</th><th>THOUSANDS</th> <th>HUNDRED</th><th>TEN</th><th>ONES</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>_____</p>	BILLIONS			MILLIONS			THOUSANDS			ONES			HUNDRED	TEN	BILLIONS	HUNDRED	TEN	MILLIONS	HUNDRED	TEN	THOUSANDS	HUNDRED	TEN	ONES																																																																																																																									<p style="text-align: center;"><b>One hundred ten billion, three hundred thousand</b></p> <table border="1" style="width: 100%; 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### II. Place Value – Write the name of the underlined digit. Then, write its value.

<p style="text-align: center;"><b><u>2</u>4,398,407,268</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">BILLIONS</th> <th colspan="3">MILLIONS</th> <th colspan="3">THOUSANDS</th> <th colspan="3">ONES</th> </tr> <tr> <th>HUNDRED</th><th>TEN</th><th>BILLIONS</th> <th>HUNDRED</th><th>TEN</th><th>MILLIONS</th> <th>HUNDRED</th><th>TEN</th><th>THOUSANDS</th> <th>HUNDRED</th><th>TEN</th><th>ONES</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>_____</p>	BILLIONS			MILLIONS			THOUSANDS			ONES			HUNDRED	TEN	BILLIONS	HUNDRED	TEN	MILLIONS	HUNDRED	TEN	THOUSANDS	HUNDRED	TEN	ONES																																																																																																																									<p style="text-align: center;"><b>30,25<u>6</u>,411,173</b></p> <table border="1" style="width: 100%; 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### III. Number Name – Write the number name for each number.

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## Challenge:

Write the name of the place that is 10 times the given value.

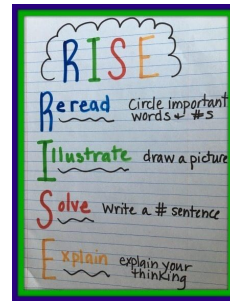
Ten thousands

BILLIONS		MILLIONS		THOUSANDS		ONES	
HUNDRED BILLIONS	TEN BILLIONS	HUNDRED MILLIONS	TEN MILLIONS	HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS
BILLIONS		MILLIONS		THOUSANDS		TENS	ONES

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## Word Problem:

Henry wrote the number name for 115,603,450,912 as one hundred fifteen, six hundred three, four hundred fifty, nine hundred twelve. Identify and correct Henry's mistake.



Illustrate:

Solve:

Explain:

## Homework:

Math Workbook  
Page 2  
#1-7, 9



Do NOT forget to hand in your exit ticket!



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson #2 Expanded Form

I. **Expanded Form**– Complete the expanded form of each number.

<b>36,805</b>  ( ___ x 10,000 ) + ( 6 x _____ ) + ( 8 x _____ ) + ( ___ x ___ )	<b>6,497,000</b>  6,000,000 + _____ + _____ + _____
<b>83,750,446</b>  _____ _____	<b>3,120,004,962</b>  _____ _____

II. **Standard Form**– Write each in standard form.

<b>(7 x 10,000) + (4 x 1)</b>  _____	<b>600,000 + 500 + 10 + 6</b>  _____
<b>(2 x 1,000,000,000) + (9 x 10,000,000) + (1 x 1,000,000) + (7 x 100,000)</b>  _____	<b>5,000,000,000 + 200,000,000 + 90,000,000 + 10,000 + 400 + 8</b>  _____

## Challenge:

Write the name of the place that is  $\frac{1}{10}$  of the given value.

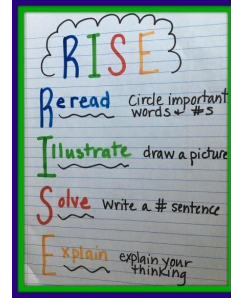
Billions

BILLIONS			MILLIONS			THOUSANDS			ONES		
HUNDRED BILLIONS	TEN BILLIONS	BILLIONS	HUNDRED MILLIONS	TEN MILLIONS	MILLIONS	HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONES

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## Word Problem:

The annual profits for an app developer are fifty million, three hundred twenty-two thousand, forty-nine dollars. Write this number in expanded form and in standard form.



Expanded Form:

Standard Form:

## Homework:

Math Workbook  
Page 4  
#1-6, 8



Do NOT forget to hand in your exit ticket!



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lesson #3 Powers of 10

I. **Powers of 10** – Use patterns to help you multiply and divide by powers of 10.

<u>Multiplication:</u>	<u>Division:</u>
<p>#1– Look at the power of ten. #2– <b>Add</b> that amount of zeros to the end of the number</p> $52 \times 10^4 = 520,000$	<p>#1– Look at the power of ten. #2– <b>Remove</b> that amount of zeros from the end of the number</p> $31,000,000,000 \div 10^3 = 31,000,000$

II. **Multiply by Powers of 10** – Find each product.

$240 \times 10^2$  _____	$1301 \times 10^2$  _____	$10 \times 10^7$  _____	$1,782,012 \times 10^4$  _____
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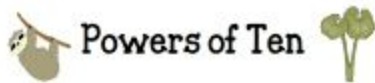
III. **Divide by Powers of 10** – Find each quotient.

$30,000,000 \div 10^4$  _____	$9,300,000 \div 10^4$  _____	$170,000 \div 10^2$  _____	$220,000 \div 10^3$  _____
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## Challenge:

Find the missing number.

$$1 \times 10^2 = 1 \times \underline{\quad}$$

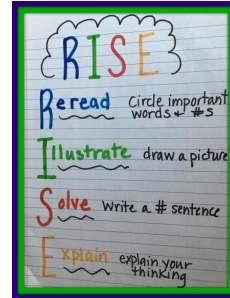


Power	Expression	Standard Form
$10^1$	10	10
$10^2$	$10 \times 10$	100
$10^3$	$10 \times 10 \times 10$	1,000
$10^4$	$10 \times 10 \times 10 \times 10$	10,000
$10^5$	$10 \times 10 \times 10 \times 10 \times 10$	100,000
$10^6$	$10 \times 10 \times 10 \times 10 \times 10 \times 10$	1,000,000
$10^7$	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	10,000,000
$10^8$	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	100,000,000
$10^9$	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$	1,000,000,000



## Word Problem:

The Moon is about  $2 \times 10^5$  miles from Earth.  
How many miles is this?



Illustrate:

Solve:

Explain:

## Homework:

Math Workbook  
Page 6  
#1-11, 13-16



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## Lesson #4

### Four Step Process

#### Word Problem #1:

A company makes souvenirs and sells them to 100 park stores. Each week 14,400 hats, 28,800 mugs and 12,000 stuffed animals are produced and shipped to the stores. The items are divided equally among the stores. How many stuffed animals does each store receive each week?



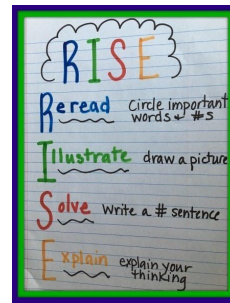
Illustrate:

Solve:

Explain:

#### Word Problem #2:

The Mississippi River drains about 1,200,000 square miles of land in the central United States. The Mississippi River is 2,340 miles long. The Nile River is 802 miles longer than the Mississippi. It drains about 1,300,000 square miles of land in northeastern Africa. What is the length of the Nile River?



Illustrate:

Solve:

Explain:



## Challenge:

When one million is added to a certain number, the number has one more digit than it had before. What could be the number?



Illustrate:

Solve:

Explain:

## Homework:

Math Workbook  
Page 9 & 10  
#1-11, 13-16



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## Lesson #5

### Addition & Subtraction Properties

- I. **Addition & Subtraction Properties**– Use properties of addition and the rules of subtraction to help you add and subtract.

<u>Commutative Property of Addition</u>	<u>Associative Property of Addition</u>	<u>Identity Property of Addition</u>	<u>Subtraction Rules</u>
$9 + 8 = 8 + 9$	$(7 + 2) + 8 = 7 + (2 + 8)$	$82 + 0 = 82$	$34 - 34 = 0$ $57 - 0 = 57$

- II. **Addition Properties**– Find the unknown number. Tell what property of addition you used.

$35 + 27 = \underline{\quad} + 35$	$72 + (8+9) = (72 + \underline{\quad}) + 9$	$945 + 0 = \underline{\quad}$
Property: _____	Property: _____	Property: _____

- III. **Subtraction Properties**– What is the difference?

$655 - 0 = \underline{\quad}$	$794 - 794 = \underline{\quad}$
-------------------------------	---------------------------------

## Challenge:

The sum of 367 and 863 is equal to the sum of 863 and another number. What is that number?

Solve:

Explain:

## Word Problem:

Rosa swims Mondays and Fridays. Each week she swims the same number of laps. Last week she swam 36 laps on Monday and 38 laps on Friday. She knows that she swam 36 laps this Friday. Explain how she can find the number of laps she swam this Monday.



Illustrate:

Solve:

Explain:

## Homework:

Math Workbook  
Page 12  
#1-5, 7, 9



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## Lesson #6

### Estimate Sums & Differences

I. **Estimate Sums & Differences** – To make an estimate, use front-end estimation or rounding.

<u>Front-End Estimation</u>	<u>Rounding</u>
<p>#1- Add the front digits. Write zeros for the others.</p> <p>#2- Adjust with the back digits.</p> <p>#3- Add the estimates.</p>	 <p style="font-size: small;">• 4 or less- STAY THE SAME • 5 or more- GO HIGHER</p>

II. **Front-End Estimation** – Estimate each sum using front-end estimation.

$\begin{array}{r} 8901 \\ 5043 \\ 9999 \\ + \underline{\hspace{1cm}} \end{array}$	$\begin{array}{r} 6320 \\ 8406 \\ 2444 \\ + \underline{\hspace{1cm}} \end{array}$	$\begin{array}{r} 6019 \\ 542 \\ + \underline{\hspace{1cm}} \end{array}$																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; padding: 5px;">Front:</th> <th style="width: 33%; padding: 5px;">End:</th> <th style="width: 33%; padding: 5px;">Total:</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Front:	End:	Total:				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; padding: 5px;">Front:</th> <th style="width: 33%; padding: 5px;">End:</th> <th style="width: 33%; padding: 5px;">Total:</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Front:	End:	Total:				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; padding: 5px;">Front:</th> <th style="width: 33%; padding: 5px;">End:</th> <th style="width: 33%; padding: 5px;">Total:</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td></td> <td></td> </tr> </tbody> </table>	Front:	End:	Total:			
Front:	End:	Total:																		
Front:	End:	Total:																		
Front:	End:	Total:																		

III. **Rounding** – Estimate each sum or difference using rounding.

$\begin{array}{r} 3087 \\ 1908 \\ - \underline{\hspace{1cm}} \end{array}$	$\begin{array}{r} 589 \\ 5890 \\ 5089 \\ + \underline{\hspace{1cm}} \end{array}$	$\begin{array}{r} 4468 \\ 3005 \\ - \underline{\hspace{1cm}} \end{array}$
---	--	---

## Challenge:

When 84,099 is decreased by a number, the difference is **about** 72,000. What could the number be?

Estimate:

Solve:

Explain:

## Word Problem:

San Gabriel Mountain Peaks	
Mountain	Height (feet)
Throop	9138
Baden-Powell	9399
Wilson	5710

What is the **approximate difference** in height between the tallest and the shortest of the three San Gabriel mountains?

Solve:

Explain:

If a hiking team climbs to the top of Throop and back down, **about** how many vertical feet does the team travel **in all**?

Solve:

Explain:

## Homework:

Math Workbook  
Page 14  
#1-8, 12



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## Lesson #7

### Find Sums & Differences

I. **Find Sums & Differences** – To make an estimate, use front-end estimation or rounding.

<u>Sums</u>	<u>Differences</u>
#1– Add the ones. Regroup. #2– Add the tens. Regroup. #3– Add the hundreds. Regroup. #4– Add the thousands.	#1– Regroup as needed. #2– Subtract in all places. #3– Check by adding.

II. **Sums** – Find each sum.

$\begin{array}{r} 2175 \\ 3702 \\ 5816 \\ + \text{-----} \end{array}$	$\begin{array}{r} 4026 \\ 91 \\ 7724 \\ + \text{-----} \end{array}$	$\begin{array}{r} 250 \\ 1964 \\ 4021 \\ 89 \\ + \text{-----} \end{array}$
---	---	--

III. **Differences** – Find each difference.

$\begin{array}{r} 8036 \\ 2713 \\ - \text{-----} \end{array}$	$\begin{array}{r} 26543 \\ 732 \\ - \text{-----} \end{array}$	$\begin{array}{r} 6488 \\ 1958 \\ - \text{-----} \end{array}$
---	---	---

## Challenge:

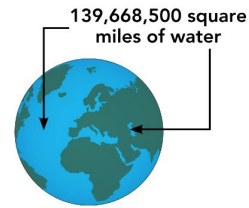
Align. Then subtract.

$$32,010,002 - 50,825 = \underline{\hspace{2cm}}$$

Check:

--

## Word Problem:



Earth is covered by land and water. The total surface area of Earth is about 197,000,000 square miles. What is Earth's approximate land surface area?

Illustrate:

Solve:

Explain:

## Homework:

Math Workbook  
Page 16  
#1-8, 10, 11



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Date: \_\_\_\_\_

**Chapter 1 Review**  
**Place Value, Addition & Subtraction**

<p>1. What is the standard form of <math>5 \times 10,000 + 6 \times 100 + 8 \times 1</math>?</p>	<p>2. Estimate the sum.</p> $\begin{array}{r} 5,180 \\ +2,327 \\ \hline \end{array}$
<p>3. Estimate the difference.</p> $\begin{array}{r} 5,180 \\ -2,327 \\ \hline \end{array}$	<p>4. What is the standard form of <math>4,000,000 + 70,000 + 600 + 30 + 1</math>?</p>
<p>5. What is 3,600,000 written as a whole number times a power of 10?</p>	<p>6. Find the unknown addend. <math>6 + (9 + 3) = (6 + \underline{\quad}) + 3</math></p>
<p>7. Which of the following has an estimated sum of <math>3 \times 10^4</math>?</p> <p>a. <math>31,425 + 8,1034</math> b. <math>20,145 + 1,145</math> c. <math>10,145 + 23,567</math> d. <math>97,453 + 43,897</math></p>	<p>8. Add.</p> $\begin{array}{r} 4,025,408 \\ +13,245,776 \\ \hline \end{array}$



**9. Subtract.**

$$26 - 0 = \underline{\quad}$$

**10. Align. Then add.**

$$4,508 + 2,926 + 948$$

**11. What is the standard form of  $6 \times 10^5$  ?**

**12. In what place is the underlined digit?**

450,235,586

**13. Write the number name for 45,200,000,000?**

**14. Complete the expanded form of 6,020,700.**

$$(6 \times \underline{\quad}) + (2 \times \underline{\quad}) + (7 \times \underline{\quad})$$

**15. What is the number name of the following number?**

$$(2 \times 100,000,000) + (4 \times 10,000,000) + (8 \times 1,000,000) + (6 \times 100)$$

**16. Complete the expanded form of this number.**

405,173

$$\underline{\quad} \times 10^5 + \underline{\quad} \times 10^3 + \underline{\quad} \times 10^2 + \underline{\quad} \times 10^1 + \underline{\quad} \times 10^0$$

**17. Add using mental math. Explain the strategy you used.**

$$50 + 1,500 + 60,000 + 20,550 = \underline{\hspace{2cm}}$$

**18. Subtract using mental math. Explain the strategy you used.**

$$401,000 - 235,162 = \underline{\hspace{2cm}}$$

**19. The average distance between New York and New Jersey is 3,485,584,200 miles.**

**Part A**

**Complete the statement. The value of 5 in the hundred thousands place is \_\_\_\_\_ the value of 5 in the millions place.**

**Part B**

**Justify your answer to Part A.**

**20. Sean writes 40,921 words of a novel. His friend edits the novel and removes 6,154 words. If Sean's goal is to have 60,000 words in the novel, how many words does he have left to write after his friend's edits?**

**Part A**

**Estimate the difference by rounding to the nearest thousand.**

**Part B**

**Without calculating the difference, is your estimate greater than or less than the actual difference?**

**Part C**

**How many words does Sean have left to write after his friend's edits?**

