Name:	Date:
Scientific Notation Word Problems	
Example 1: In 2006, Blue Ridge Parkwa	ay was visited by about 1.9×10^7 people. That same year, Great
Smoky Mountains National Park was vis	sited by about 9.3×10^6 people. How many more people visited
Blue Ridge Parkway than Great Smoky	Mountains National Park in 2006? What operation will be used
to solve this problem?	
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· · · · ·	ss Domestic Product (GDP) of 1.313×10^{13} . The United Kingdom
had a GDP of 1.93×10^{12} . What were the	ne combined GDPs of the US and the UK in 2006? What
operation will be used to solve this p	problem?
Example 3: One cell has a diameter of	f 4.5 x 10 ⁻⁶ . If there are 20 cells growing in a lab, what are their
combined diameters? What operation	will be used to solve this problem?

Name:	Date:
Example 4: The average distance	e from Earth to the Sun is 1.46 x 10 ⁸ kilometers. The average distance
from Earth to the Moon is 3.84 x	10 ⁵ kilometers. About many more times as great is the distance from
	n? What operation will be used to solve this problem?
	while operation will be used to solve this problem.
Example 5 : About 8.73 x 10 ⁸ peo	ople in the world speak Chinese. About 3.22 x 10 ⁸ speak Spanish. In
scientific notation, how many mo	ore people speak Chinese than Spanish? What operation will be used
to solve this problem?	
·	covers an area of 3.17 x 10 ⁴ square miles. The smallest Great Lake,
Ontario, covers an area of 7.34 x	10 ³ square miles. About how many times as great is the area covered
by Lake Superior than Lake Onta	rio? What operation will be used to solve this problem?
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Example 1: The following incom	nes are recorded for music artists in 2010.

	Artist		
	Aitist	2010 Income	
	Jay-Z	2.56 X 10 ⁷	
	Yo Gotti	5.1 X 10 ⁶	
How much more mon	ney did Jay-Z make over Y	o Gotti? What operation w	vill be used to solve this
oroblem?			
			2
Example 8: The distar	nce between Memphis and	d Sand Francisco is 1.2 x 10	³ miles. The distance
otrugan Managhia and	d Nadavilla is 2.5 v 102 Ha		ais a a the sur Nie ales ille fue un
etween Memphis and	3 Nashville is 2.5 x 10 ² . Ho	w much further is San Franc	cisco than Nashville from
Jemphis? What oper	ration will be used to sol	ve this problem?	
wiempnis: what oper	ation will be used to sol	ve this problem?	

Name:	Date:		
kilometers. The smallest planet in our so	lar system is Mercury with a diameter of about 4.9 x 10 ³		
kilometers. About how many times great	ilometers. About how many times greater is the diameter of Jupiter than the diameter of Mercury?		
What operation will be used to solve t	his problem?		
Example 10 : In 2006, China had 1.311 x	10^8 internet users. That same year, Japan had 9.09×10^7 internet		
users. How many internet users did the t	two countries have combined? What operation will be used to		
solve this problem?			
Example 11 : With nearly 3.0 x 10 ⁸ books	s, the Library of Congress is the largest library in the US. The		
University of Tennessee has about 2.97	x 10 ⁷ books in its library. How many more books does the		
Library of Congress have than the Unive	ersity of Tennessee? What operation will be used to solve this		
problem?			