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About the Mathematics in This Unit

Dear Family,

Our class is starting a new addition and subtraction unit, *Large Numbers and Landmarks*. During this unit, students study place value in large numbers, and complete a final study of addition and subtraction strategies. Students are expected to leave Grade 4 using a variety of strategies, including the U.S. standard algorithms, to fluently solve multidigit addition and subtraction problems.

Throughout the unit, students work toward these goals:

Benchmark/Goal	Examples
Read, write, and compare numbers up to 1,000,000 and round them to any place.	<p>68,094</p> <p>Expanded form: $60,000 + 8,000 + 90 + 4$</p> <p>Words: sixty-eight thousand, ninety-four</p> <p>Rounded to nearest 10,000: 70,000</p> <p>Rounded to nearest 1,000: 68,000</p> <p>Rounded to nearest 100: 68,100</p> <p>Rounded to nearest 10: 68,090</p>
Fluently solve multidigit addition and subtraction problems using a variety of strategies including the U.S. standard algorithms.	<p>$451 - 287 =$</p> <p>Solution 1</p> <p>Solution 2</p> $\begin{array}{r} 3 \ 14 \ 11 \\ \cancel{4} \ \cancel{5} \ \cancel{1} \\ - 2 \ 8 \ 7 \\ \hline 1 \ 6 \ 4 \end{array}$

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Benchmark/Goal	Examples
Use addition and subtraction to solve word problems involving measurement.	<i>Carmen flies from Los Angeles to Mexico City, which is 4,771 kilometers. From Mexico City she flies to Rio de Janeiro, which is 7,678 kilometers. How far does she fly altogether?</i>

In our math class, students spend time discussing problems in depth and are asked to share their reasoning and solutions. It is important that children solve math problems accurately and efficiently in ways that make sense to them. At home, encourage your child to explain the math thinking that supports those solutions.

Please look for more information and activities about *Large Numbers and Landmarks* that will be sent home in the coming weeks.



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Related Activities to Try at Home

Dear Family,

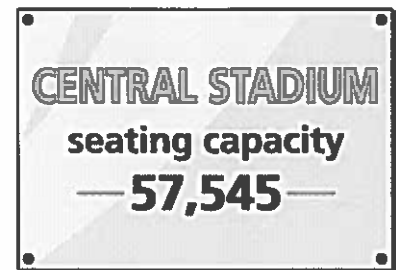
The activities below are related to the mathematics in this addition and subtraction unit, *Large Numbers and Landmarks*. You can use the activities to enrich your child's mathematical learning experience.

Making Sense of Large Numbers

With your child, look for large numbers in the newspaper, on packages, on signs, and around your home and neighborhood. Talk together and ask questions about the numbers. You might ask, "How much would the car cost if the salesperson offered a \$2,500 discount?"



You might ask, "If 45,000 people went to the basketball game at Central Stadium last night, how many seats were empty?"





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Related Activities to Try at Home

Adding and Subtracting Distances

Find opportunities to give your child first-hand experiences with distances, such as the number of miles driven across town or on a long trip. If you drive, show your child the odometer on your car, and ask your child to help you figure out how far it is to the grocery store or the playing field. You might ask, "If we start at 24,538 miles, and when we get to the store the odometer reads 24,542, how far have we gone?"

How Did You Solve That?

Ask your child to tell you about how he or she is adding and subtracting. Show that you are interested in these approaches. Because these strategies may be unfamiliar to you, listen carefully to your child's explanation; you might even do a problem or two, using the new procedure. Let your child be the teacher!