

School-Home Letter

Dear Family,

During the next few weeks, our math class will be learning how to use and represent whole numbers through the hundred thousands place. We will also be adding and subtracting multi-digit numbers.

You can expect to see homework that provides practice with naming numbers in different ways, as well as rounding and estimating greater numbers.

Here is a sample of how your child will be taught to write numbers in different forms.

Vocabulary

estimate A number that is close to the exact amount

expanded form A way to write numbers by showing the value of each digit

period Each group of three digits separated by commas in a multi-digit number

round To replace a number with another number that tells about how many or how much

standard form A way to write numbers using the digits 0-9 with each digit having a place value

word form A way to write numbers by using words



MODEL Place Value Through Hundred Thousands

This is how we will be writing numbers in different forms.

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones
2	8	1,	3	6	5

STANDARD FORM:

281,365

WORD FORM:

two hundred eighty-one thousand, three hundred sixty-five

EXPANDED FORM:

$200,000 + 80,000 + 1,000 + 300 + 60 + 5$

Tips

Rounding Greater Numbers

When rounding, first find the place to which you want to round. Then, look at the digit to the right. If the digit to the right is *less than 5*, the digit in the rounding place stays the same. If the digit is *5 or greater*, the digit in the rounding place increases by 1. All the digits to the right of the rounding place change to zero.

Name _____

Model Place Value Relationships**COMMON CORE STANDARD—4.NBT.1**
*Generalize place value understanding for multi-digit whole numbers.***Find the value of the underlined digit.**

1. 6,035

2. 43,782

3. 506,087

4. 49,254

5. 136,422

6. 673,512

7. 814,295

8. 736,144

Compare the values of the underlined digits.

9. 6,300 and 530

The value of 3 in _____ is _____ times
the value of 3 in _____.

10. 2,783 and 7,283

The value of 2 in _____ is _____ times
the value of 2 in _____.

11. 34,258 and 47,163

The value of 4 in _____ is _____ times
the value of 4 in _____.

12. 503,497 and 26,475

The value of 7 in _____ is _____ times
the value of 7 in _____.**Problem Solving****Use the table for 13–14.**

13. What is the value of the digit 9 in the attendance at the Chargers vs. Titans game?

14. The attendance at which game has a 7 in the ten thousands place?

Football Game Attendance

Game	Attendance
Chargers vs. Titans	69,143
Ravens vs. Panthers	73,021
Patriots vs. Colts	68,756

Name _____

Read and Write Numbers



COMMON CORE STANDARD—4.NBT.2
Generalize place value understanding for multi-digit whole numbers.

Read and write the number in two other forms.

1. six hundred ninety-two thousand, four

2. 314,207

3. 600,000 +
80,000 + 10

standard form:

692,004;

expanded form:

600,000 +

90,000 +

2,000 + 4

Use the number 913,256.

4. Write the name of the period that has the digits 913.

5. Write the digit in the ten thousands place.

6. Write the value of the digit 9.

Problem Solving



Use the table for 7 and 8.

Population in 2008

State	Population
Alaska	686,293
South Dakota	804,194
Wyoming	532,668

7. Which state had a population of eight hundred four thousand, one hundred ninety-four?

8. What is the value of the digit 8 in Alaska's population?

Name _____

Compare and Order Numbers**COMMON CORE STANDARD—4.NBT.2***Generalize place value understanding for multi-digit whole numbers.***Compare. Write $<$, $>$, or $=$.**

1. 3,273 $\left(< \right)$ 3,279

2. \$1,323 $\left(\bigcirc \right)$ \$1,400

3. 52,692 $\left(\bigcirc \right)$ 52,692

4. \$413,005 $\left(\bigcirc \right)$ \$62,910

5. 382,144 $\left(\bigcirc \right)$ 382,144

6. 157,932 $\left(\bigcirc \right)$ 200,013

7. 401,322 $\left(\bigcirc \right)$ 410,322

8. 989,063 $\left(\bigcirc \right)$ 980,639

9. 258,766 $\left(\bigcirc \right)$ 258,596

Order from least to greatest.

10. 23,710; 23,751; 23,715

11. 52,701; 54,025; 5,206

12. 465,321; 456,321; 456,231

13. \$330,820; \$329,854; \$303,962

Problem Solving

14. An online newspaper had 350,080 visitors in October, 350,489 visitors in November, and 305,939 visitors in December. What is the order of the months from greatest to least number of visitors?

15. The total land area in square miles of each of three states is shown below.

Colorado: 103,718

New Mexico: 121,356

Arizona: 113,635

What is the order of the states from least to greatest total land area?

Name _____

Round Numbers



COMMON CORE STANDARD—4.NBT.3
Generalize place value understanding for multi-digit whole numbers.

Round to the place value of the underlined digit.

1. $8\underline{6}2,840$

$8\underline{6}2,840$ 860,000
 ↑
 less than 5

2. $12\underline{3},499$

3. $5\underline{5}2,945$

- Look at the digit to the right. If the digit to the right is *less than* 5, the digit in the rounding place stays the same.
- Change all the digits to the right of the rounding place to zero.

4. $3\underline{8}9,422$

5. $2\underline{0}9,767$

6. $19\underline{1},306$

7. $6\underline{6},098$

8. $7\underline{3},590$

9. $1\underline{4}9,903$

10. $68\underline{4},303$

11. $49\underline{9},553$

Problem Solving



Use the table for 12–13.

12. Find the height of Mt. Whitney in the table. Round the height to the nearest thousand feet.

_____ feet

13. What is the height of Mt. Bona rounded to the nearest ten thousand feet?

_____ feet

Mountain Heights		
Name	State	Height (feet)
Mt. Bona	Alaska	16,500
Mt. Whitney	California	14,494