

The HW is due on Thursday, 08/29 by midnight.

This HW will help you practice the concepts covered in class so far, and also help you review for the upcoming Quiz on Friday, 08/30.

Show your work. You can attach scanned pages of your work at the end if that works for you better.

Name \_\_\_\_\_

LESSON 1.2

Practice and Homework

## Read and Write Numbers

Go Online

Interactive Examples

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 Problems 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?

9. Is *70 thousand* written in standard form or word form? Explain.

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## On Your Own

**Compare. Write  $<$ ,  $>$ , or  $=$ . Use a number line, if needed.**

7. \$2,212  \$2,600

8. 88,304  88,304

9. \$524,116  \$61,090

10. 751,272  851,001

**Order from least to greatest. Use a number line, if needed.**

11. 41,090; 41,190; 40,009

12. 910,763; 912,005; 95,408

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**MTR** Write all of the digits that can replace each .

13.  $567 < 5\text{  }5 < 582$

14.  $464,545 > 4\text{  }3,535 > 443,550$

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15. Minho's car has 156,261 miles on the odometer. Lucia's car has 165,002 miles on the odometer. Yakov's car has 145,834 miles on the odometer. Whose car has the most miles? Order the number of miles from least to greatest.

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16. At Lupita's Used Cars, the sales staff set a goal of \$25,500 in sales each week. The sales for three weeks were \$28,288; \$25,369; and \$25,876. Which total did not meet the goal?

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17. Max said that 36,594 is less than 5,980 because 3 is less than 5. Describe Max's error and give the correct answer.

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# Compare and Order Numbers

**Go Online**

Interactive Examples

**Compare. Write  $<$ ,  $>$ , or  $=$ . Use a number line, if needed.**

1. 3,273  $\bigcirc$  3,279

2. \$1,323  $\bigcirc$  \$1,400

3. 52,692  $\bigcirc$  52,692

4. \$413,005  $\bigcirc$  \$62,910

5. 382,144  $\bigcirc$  382,144

6. 157,932  $\bigcirc$  200,013

7. 401,322  $\bigcirc$  410,322

8. 989,063  $\bigcirc$  980,639

9. 258,766  $\bigcirc$  258,596

**Order from least to greatest. Use a number line, if needed.**

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

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

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

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

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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?

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16. **WRITE** *Math* Suppose the leftmost digits of two numbers are 8 and 3. Can you tell which number is greater? Explain.

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## Chapter Review

1. Select a number for  $\square$  that will make a true comparison. Mark all that apply.

$$703,209 > \square$$

- (A) 702,309      (C) 703,209      (E) 730,029  
(B) 703,029      (D) 703,290      (F) 730,209

2. Amira wrote the greatest number that can be made using each of these digits exactly once.



### Part A

What was Amira's number? How do you know this is the greatest possible number for these digits?

### Part B

What is the least number that can be made using each digit exactly once? Explain why the value of the 4 is greater than the value of the 5.

For Problems 3–4, use the table.

U.S. Mountain Peaks					
Name	State	Height (ft)	Name	State	Height (ft)
Blanca Peak	CO	14,345	Mount Whitney	CA	14,494
Crestone Peak	CO	14,294	University Peak	AK	14,470
Humboldt Peak	CO	14,064	White Mountain	CA	14,246

3. Write the name of each mountain peak in the box that describes its height, in feet.

Between 14,000 feet and 14,300 feet

Between 14,301 feet and 14,500 feet

4. Circle the name of the tallest peak. Explain how you know which of the mountain peaks is the tallest.

5. Which statement is true?

- A

400 is 10 times as much as 4,000.
- B

40 is  $\frac{1}{10}$  as much as 400.
- C

4,000 is 100 times as much as 4.
- D

4 is  $\frac{1}{10}$  as much as 40,000

6. Ishan and Cheryl each rounded 745,829 to the nearest ten thousand. Ishan wrote 750,000 and Cheryl wrote 740,000. Who is correct? Explain the error that was made.

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7. The total season attendance for a college team's home games, rounded to the nearest ten thousand, was 270,000. For Problems 7a–7d, select Yes or No to tell whether the number could be the exact attendance.

7a. 265,888                      ☐ Yes                      ☐ No

7b. 260,987                      ☐ Yes                      ☐ No

7c. 274,499                      ☐ Yes                      ☐ No

7d. 206,636                      ☐ Yes                      ☐ No

**For Problems 8–10, use the table.**

The table shows recent population data for Sacramento, California.

Population of Sacramento, CA			
Age in years	Population	Age in years	Population
Under 5	35,010	20 to 34	115,279
5 to 9	31,406	35 to 49	92,630
10 to 14	30,253	50 to 64	79,271
15 to 19	34,219	65 and over	49,420

8. Order the populations of these age groups from least to greatest. Under 5, 5 to 9, and 15 to 19.

9. What is the value of the digit 9 in the population of the group 65 and over?

10. Write the number of children between 10 to 14 another way.

11. For Problems 11a–11d, select True or False for each sentence.

- 11a. The value of 7 in 375,092 is 7,000. ☐ True ☐ False
- 11b. The value of 5 in 427,593 is 500. ☐ True ☐ False
- 11c. The value of 2 in 749,021 is 200. ☐ True ☐ False
- 11d. The value of 4 in 842,063 is 40,000. ☐ True ☐ False

12. Select another way to show 403,871. Mark all that apply.

- ☐ A four hundred three thousand, eight hundred one
- ☐ B four hundred three thousand, seventy-one
- ☐ C four hundred three thousand, eight hundred seventy-one
- ☐ D  $400,000 + 38,000 + 800 + 70 + 1$
- ☐ E  $400,000 + 3,000 + 800 + 70 + 1$
- ☐ F 4 hundred thousands + 3 thousands + 8 hundreds + 7 tens + 1 one

13. Lexi, Susie, and Rial are playing an online word game. Rial scores 100,034 points. Lexi scores 100,754 points. Susie scores 100,030 points. Put the scores in order from greatest to least.

14. There were 7,987 visitors to a museum in June. What is this number rounded to the nearest thousand? Explain how you rounded.



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15. New Mexico has an area of 121,298 square miles. California has an area of 155,779 square miles. Arizona has an area of 113,635 square miles. Which state has the most square miles? Which state has the least square miles? Explain how you know.

16. Circle the choice that completes the statement.

	<div><div>=</div><div>&gt;</div><div>&lt;</div></div>	
10,000 less than 24,576		1,000 less than 14,576

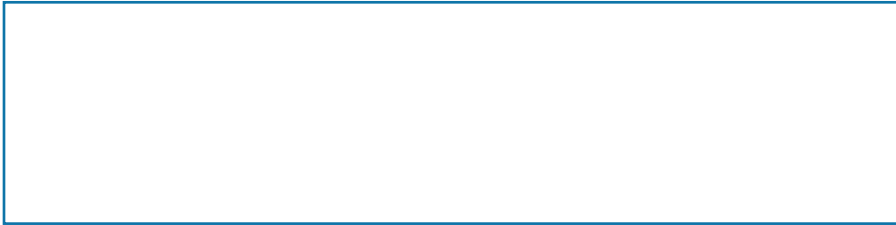
17. Match the number to the value of its 5.

45,678 ●	● 500
757,234 ●	● 50
13,564 ●	● 50,000
3,450 ●	● 5,000

18. Joey has 700 pennies in a jar. Brenda has 10 times as many pennies as Joey does. How many pennies does Brenda have?

(A) 70,000  
(B) 7  
(C) 7,000  
(D) 70

19. A college baseball team had 3 games in April. Game one had an attendance of 14,753 people. Game two had an attendance of 20,320 people. Game three had an attendance of 14,505 people. Write the games in order from the least attendance to the greatest attendance. Use pictures, words, or numbers to show how you know.



20. Caden made a four-digit number with a 5 in the thousands place, a 5 in the ones place, a 6 in the tens place, and a 4 in the hundreds place. What was the number?

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## Period Posers

Solve each riddle.

- 1 Fred:** My number has two periods. One period contains the digits 3, 0, and 6 in that order. The other contains the digits 0, 9, and 5 in that order.

**Ned:** My number has two periods also. One contains the digits 4, 8, and 6 in that order. The other period contains the digits 1, 2, and 7 in that order.

**Fred:** Yes, but my number is greater than your number.

What are Fred's and Ned's numbers?

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- 2 Ann:** My number has two periods. One contains the digits 4, 1, and 8 in that order. The other contains the digit 9.

**Jan:** My number has two periods. One period contains only 0s. The other has the digits 1 and 0 in that order.

**Ann:** Too bad, my number must be greater than your number.

**Jan:** Nope—my number is greater!

What are Ann's and Jan's numbers?

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- 3 Mo:** My number has two periods. One period has a 7 in the hundreds place. The other has an 8 in the tens place.

**Bo:** My number also has two periods. One has a 1 in the hundreds place. The other has a 2 in the tens place.

**Mo:** All other digits in our numbers are zeros. So how can it be that your number is greater than my number?

What are Mo's and Bo's numbers?

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- 4 Stretch Your Thinking** Write your own period poser. Then exchange it with a classmate and solve each other's posers.
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1) The population of a New York City was 8,363,710 in 2008. It was expected to increase by 1,201,987 by the end of 2009. What was the expected population of New York City at the end of 2009?

2) In the society library, there are 398,456 old books. The management decided to add some new books. The total books then became 466,332. How many new books were added in the library?

3) A company manufactures some number of bolts on Monday and 324,800 bolts on Tuesday. The total number of bolts manufactured on those two days were 847,800. How many bolts did the company manufactured on Monday?

4) The average distance from earth to the sun is 92, 589, 230 miles. The distance from earth to the moon is 92,350,373 miles less than the distance from earth to the sun. Find the distance from earth to the moon.

5) Mr. Milson donated \$508,458 by check for Haiti relief fund. The balance in his account was \$3,563,599 once the check is released. How much was in his account before he made the donation?