

## 3rd Grade American Math HW 1

Dear Family,  
During the next few weeks, our math class will be learning to read and write numbers through ten thousand. We will also plot, order, and compare numbers to ten thousand. You can expect to see homework that provides practice with reading and writing numbers to ten thousand as well as plotting numbers on a number line and comparing numbers to ten thousand.

### Vocabulary

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

$$1,969 = 1,000 + 900 + 60 + 9.$$

**standard form:** A way to write numbers using the digits 0 to 9, with each digit having a place value. 1,969 is in standard form.

**word form:** A way to write numbers by using words

1,969 = one thousand, nine hundred sixty-nine

- Homework due date: **Sunday, August 31<sup>st</sup>**
- Homework may be printed or completed on the iPad. Please upload it to Archie by Sunday night. An email with step-by-step instructions will be sent. If you need your child's Archie login information, please email your homeroom teacher.
- Feel free to contact me with any questions at [diana.charaf@archimedean.org](mailto:diana.charaf@archimedean.org)

**Complete homework daily based on the schedule provided below:**

<b>Monday 08/25:</b>	<b>pages: 31 - 32</b>
<b>Tuesday 08/26:</b>	<b>pages: 33 - 34</b>
<b>Wednesday 08/27:</b>	<b>pages: 35 - 36</b>
<b>Thursday 08/28:</b>	<b>pages: 61 - 62</b>
<b>Friday 08/29:</b>	<b>No HW</b>

Name \_\_\_\_\_

## Chapter Review

1. For Problems 1a–1d, choose Yes or No to tell whether the value of the underlined digit is correct.

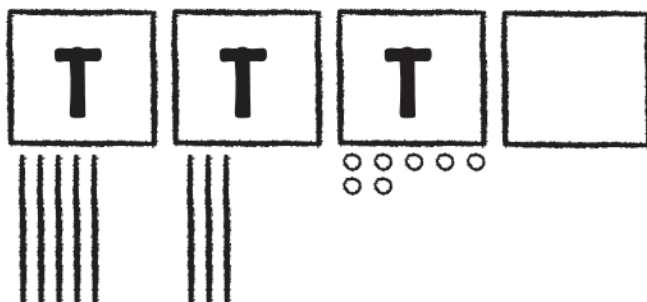
1a. 9,654; 6,000  Yes  No

1b. 7,120; 7,000  Yes  No

1c. 4,359; 5  Yes  No

1d. 7,486; 400  Yes  No

2. Write the number in standard form.



3. A hot air balloon is 578 feet above the ground. Between which two numbers on the number line is 578?

**A** between 70 and 80 **C** between 700 and 800

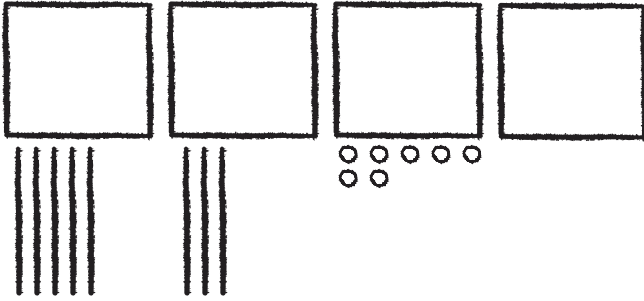
**B** between 400 and 500 **D** between 500 and 600

4. There are 5,496 DVDs at the library. Write this number in word form.

5. The Arkansas River is 1,443 miles long. The Rio Grande River is 1,759 miles long, and the Colorado River is 1,450 miles long. Which lists the river lengths from longest to shortest?

- A 1,443; 1,759; 1,450       C 1,759; 1,450; 1,443  
 B 1,443; 1,450; 1,759       D 1,759; 1,443; 1,450

6. Write the number in word form.



7. Use  $>$ ,  $<$ , or  $=$  to compare the numbers.

For Problems 7a–7d, select True or False for each comparison.

- 7a.  $891 < 5,902$        True       False  
7b.  $8,001 > 7,897$        True       False  
7c.  $6,812 = 6,821$        True       False  
7d.  $3,496 > 3,469$        True       False

Name \_\_\_\_\_

8. There are three thousand, two hundred seven people who work at an office building.

8a. Write this number in standard form.

\_\_\_\_\_

8b. Write this number in expanded form.

\_\_\_\_\_

8c. Is this number even or odd? Which place value did you use to decide?

\_\_\_\_\_

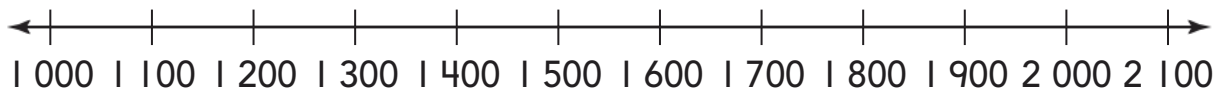
9. An order for 5,380 toys is being shipped to a warehouse in the United States. How many hundreds are in 5,380?

\_\_\_\_\_ hundreds

Use the table for Problems 10–12.

T-shirt Sales	
Month	Number of T-shirts Sold
June	1,402
July	2,079
August	1,650

10. Plot the number of T-shirts sold each month on a number line.



11. Order the numbers of T-shirts sold from least to greatest.

\_\_\_\_\_

12. Complete the sentences.

2,079 is between \_\_\_\_\_ and \_\_\_\_\_.

2,079 is closer to \_\_\_\_\_.

13. One killer whale at the Sea Center weighed 9,485 pounds.

For Problems 13a–13d, select Yes or No to tell if the number is the same as 9,485.

13a. 94 thousands, 85 ones

Yes

No

13b. 9 thousands, 48 hundreds,  
5 ones

Yes

No

13c. 9 thousands, 48 tens, 5 ones

Yes

No

13d. 948 tens, 5 ones

Yes

No

14. Students guessed the number of beans in a jar. The winner guessed  $8,000 + 30 + 4$ .

### Part A

Write this number in standard form.

\_\_\_\_\_

### Part B

Write this number in word form.

\_\_\_\_\_

15. There were 4,618 students enrolled in a science academy. What is the number of students in expanded form and word form?

Name \_\_\_\_\_

16. Use place value to order 4,178; 4,781; and 4,877 from greatest to least. Explain.

17. Is  $2,000 + 440 + 7$  *equal to* or *not equal to*  $2,000 + 300 + 100 + 47$ ? Explain.

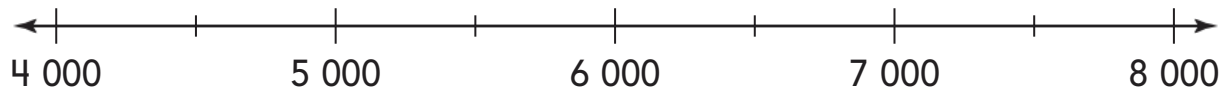
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18. On a road trip, the Aguirre family drove 5,963 miles.

### Part A

Plot 5,963 on the number line.



### Part B

5,963 is between \_\_\_\_\_ and \_\_\_\_\_.

5,963 is closer to \_\_\_\_\_ than \_\_\_\_\_.

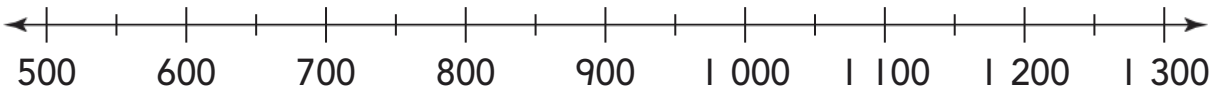
19. A factory fills 100 bottles of soap every minute. How many minutes will it take to fill 2,400 bottles of soap?
- (A) 2 minutes
  - (B) 24 minutes
  - (C) 240 minutes
  - (D) 2,400 minutes

20. The number of campers at each session is shown.

Campers	
Session	Number of Campers
A	1,065
B	1,114
C	992

### Part A

Plot the numbers on the number line. Then write them in order from least to greatest.



### Part B

There were 1,103 campers in Session D. Use  $>$ ,  $<$ , or  $=$  to compare the number of campers in Session D with the number of campers in Session B.

# Round Numbers

Go Online

Interactive Examples

**Round to the place value of the underlined digit.**

1.  $\underline{2}$ ,840

$$\begin{array}{r} \underline{2},840 \\ \uparrow \\ \text{greater than 5} \end{array} \quad \underline{\quad 3,000 \quad}$$

2.  $3,\underline{4}99$

\_\_\_\_\_

3.  $2,9\underline{4}5$

\_\_\_\_\_

- 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 to the right is *5 or greater*, the digit in the rounding place increases by one.
- Write zeros for the digits to the right of the rounding place.

4.  $\underline{9}$ ,422

\_\_\_\_\_

5.  $9,\underline{7}67$

\_\_\_\_\_

6.  $\underline{1}$ ,306

\_\_\_\_\_

7.  $6,\underline{0}98$

\_\_\_\_\_

## Problem Solving

**Use the table for Problems 8–9.**

8. Find the elevation of Red Trail in the table. Round the elevation to the nearest thousand feet.

\_\_\_\_\_ feet

9. What is the elevation of Blue Trail rounded to the nearest hundred feet?

\_\_\_\_\_ feet

Hiking Elevations	
Name	Height (feet)
Red Trail	6,500
Blue Trail	4,494

## Lesson Check

11. What is 7,039 rounded to the nearest thousand?
12. To the nearest hundred, the number of visitors at the rodeo was 6,800. What might have been the exact number of visitors at the rodeo?

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## Spiral Review

13. Write the symbol that makes the following statement true.
14. Pittsburgh International Airport had approximately 714,587 passengers in August 2009. Write a number that is greater than 714,587.

$$\$546,322 \bigcirc \$540,997$$

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The fourth grade collected 40,583 cans and plastic bottles. Write this number in word form.

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