

# Eureka Math™

# Grade 5

Lessons

5-7

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Express as decimal numerals. The first one is done for you.

a. Four thousandths	0.004
b. Twenty-four thousandths	
c. One and three hundred twenty-four thousandths	
d. Six hundred eight thousandths	
e. Six hundred and eight thousandths	
f. $\frac{46}{1000}$	
g. $3\frac{946}{1000}$	
h. $200\frac{904}{1000}$	

2. Express each of the following values in words.

- a. 0.005 \_\_\_\_\_
- b. 11.037 \_\_\_\_\_
- c. 403.608 \_\_\_\_\_

3. Write the number on a place value chart. Then, write it in expanded form using fractions or decimals to express the decimal place value units. The first one is done for you.

- a. 35.827

Tens	Ones		Tenths	Hundredths	Thousandths
3	5	●	8	2	7

$$35.827 = 3 \times 10 + 5 \times 1 + 8 \times \left(\frac{1}{10}\right) + 2 \times \left(\frac{1}{100}\right) + 7 \times \left(\frac{1}{1000}\right) \text{ or}$$

$$= 3 \times 10 + 5 \times 1 + 8 \times 0.1 + 2 \times 0.01 + 7 \times 0.001$$

b. 0.249

c. 57.281

4. Write a decimal for each of the following. Use a place value chart to help, if necessary.

a.  $7 \times 10 + 4 \times 1 + 6 \times \left(\frac{1}{10}\right) + 9 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1000}\right)$

b.  $5 \times 100 + 3 \times 10 + 8 \times 0.1 + 9 \times 0.001$

c.  $4 \times 1,000 + 2 \times 100 + 7 \times 1 + 3 \times \left(\frac{1}{100}\right) + 4 \times \left(\frac{1}{1000}\right)$

5. Mr. Pham wrote 2.619 on the board. Christy says it is two and six hundred nineteen thousandths. Amy says it is 2 ones 6 tenths 1 hundredth 9 thousandths. Who is right? Use words and numbers to explain your answer.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Express as decimal numerals. The first one is done for you.

a. Five thousandths	0.005
b. Thirty-five thousandths	
c. Nine and two hundred thirty-five thousandths	
d. Eight hundred and five thousandths	
e. $\frac{8}{1000}$	
f. $\frac{28}{1000}$	
g. $7\frac{528}{1000}$	
h. $300\frac{502}{1000}$	

2. Express each of the following values in words.

a. 0.008 \_\_\_\_\_

b. 15.062 \_\_\_\_\_

c. 607.409 \_\_\_\_\_

3. Write the number on a place value chart. Then, write it in expanded form using fractions or decimals to express the decimal place value units. The first one is done for you.

a. 27.346

Tens	Ones		Tenths	Hundredths	Thousandths
2	7	●	3	4	6

$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times \left(\frac{1}{10}\right) + 4 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right) \text{ or}$$

$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times 0.1 + 4 \times 0.01 + 6 \times 0.001$$

b. 0.362

c. 49.564

4. Write a decimal for each of the following. Use a place value chart to help, if necessary.

a.  $3 \times 10 + 5 \times 1 + 2 \times \left(\frac{1}{10}\right) + 7 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right)$

b.  $9 \times 100 + 2 \times 10 + 3 \times 0.1 + 7 \times 0.001$

c.  $5 \times 1000 + 4 \times 100 + 8 \times 1 + 6 \times \left(\frac{1}{100}\right) + 5 \times \left(\frac{1}{1000}\right)$

5. At the beginning of a lesson, a piece of chalk is 4.875 inches long. At the end of the lesson, it is 3.125 inches long. Write the two amounts in expanded form using fractions.

a. At the beginning of the lesson:

b. At the end of the lesson:

6. Mrs. Herman asked the class to write an expanded form for 412.638. Nancy wrote the expanded form using fractions, and Charles wrote the expanded form using decimals. Write their responses.

Thousands	
Hundreds	
Tens	
Ones	
Tenths	
Hundredths	
Thousandths	

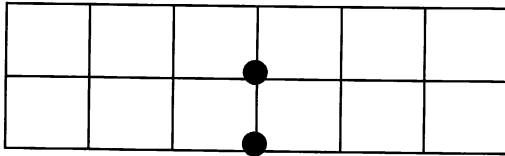
thousands through thousandths place value chart

Name \_\_\_\_\_

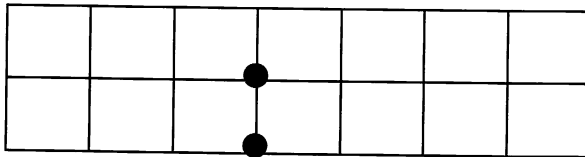
Date \_\_\_\_\_

1. Show the numbers on the place value chart using digits. Use  $>$ ,  $<$ , or  $=$  to compare. Explain your thinking in the space to the right.

34.223 ○ 34.232







0.8 ○ 0.706



2. Use  $>$ ,  $<$ , or  $=$  to compare the following. Use a place value chart to help, if necessary.

a. 16.3	○	16.4
b. 0.83	○	$\frac{83}{100}$
c. $\frac{205}{1000}$	○	0.205
d. 95.580	○	95.58
e. 9.1	○	9.099
f. 8.3	○	83 tenths
g. 5.8	○	Fifty-eight hundredths

h. Thirty-six and nine thousandths		4 tens
i. 202 hundredths		2 hundreds and 2 thousandths
j. One hundred fifty-eight thousandths		158,000
k. 4.15		415 tenths

3. Arrange the numbers in increasing order.

a. 3.049 3.059 3.05 3.04

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b. 182.205 182.05 182.105 182.025

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4. Arrange the numbers in decreasing order.

a. 7.608 7.68 7.6 7.068

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b. 439.216 439.126 439.612 439.261

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5. Lance measured 0.485 liter of water. Angel measured 0.5 liter of water. Lance said, "My beaker has more water than yours because my number has three decimal places and yours only has one." Is Lance correct? Use words and numbers to explain your answer.
6. Dr. Hong prescribed 0.019 liter more medicine than Dr. Tannenbaum. Dr. Evans prescribed 0.02 less than Dr. Hong. Who prescribed the most medicine? Who prescribed the least?

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use  $>$ ,  $<$ , or  $=$  to compare the following.

a. 16.45	<input type="text"/>	16.454
b. 0.83	<input type="text"/>	$\frac{83}{100}$
c. $\frac{205}{1000}$	<input type="text"/>	0.205
d. 95.045	<input type="text"/>	95.545
e. 419.10	<input type="text"/>	419.099
f. Five ones and eight tenths	<input type="text"/>	Fifty-eight tenths
g. Thirty-six and nine thousandths	<input type="text"/>	Four tens
h. One hundred four and twelve hundredths	<input type="text"/>	One hundred four and two thousandths
i. One hundred fifty-eight thousandths	<input type="text"/>	0.58
j. 703.005	<input type="text"/>	Seven hundred three and five hundredths

2. Arrange the numbers in increasing order.

a. 8.08   8.081   8.09   8.008

\_\_\_\_\_

b. 14.204   14.200   14.240   14.210

\_\_\_\_\_

3. Arrange the numbers in decreasing order.

a. 8.508 8.58 7.5 7.058

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b. 439.216 439.126 439.612 439.261

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4. James measured his hand. It was 0.17 meter. Jennifer measured her hand. It was 0.165 meter. Whose hand is bigger? How do you know?
5. In a paper airplane contest, Marcel's plane travels 3.345 meters. Salvador's plane travels 3.35 meters. Jennifer's plane travels 3.3 meters. Based on the measurements, whose plane traveled the farthest distance? Whose plane traveled the shortest distance? Explain your reasoning using a place value chart.

Name \_\_\_\_\_

Date \_\_\_\_\_

Fill in the table, and then round to the given place. Label the number lines to show your work. Circle the rounded number.

1. 3.1

- a. Hundredths    b. Tenths    c. Tens



Tens	Ones	Tenths	Hundredths	Thousandths
		●		

2. 115.376

- a. Hundredths    b. Ones    c. Tens



Tens	Ones	Tenths	Hundredths	Thousandths
		●		