Name \_\_\_\_\_

Date \_\_\_\_\_

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

a.	Five thousandths	0.005
b.	Thirty-five thousandths	
с.	Nine and two hundred thirty-five thousandths	
d.	Eight hundred and five thousandths	
e.	<u>8</u> 1000	
f.	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

$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times \left(\frac{1}{10}\right) + 4 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right) \text{ or}$$
$$27.346 = 2 \times 10 + 7 \times 1 + 3 \times 0.1 + 4 \times 0.01 + 6 \times 0.001$$

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## 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.

