

Name _____ Date ____

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

a.	Five thousandths	0.005
b.	Thirty-five thousandths	0.035
C.	Nine and two hundred thirty-five thousandths	9.235
d.	Eight hundred and five thousandths	800.005
e.	8 1000	0.008
f.	28 1000	0.028
g.	$7\frac{528}{1000}$	7.528
h.	$300\frac{502}{1000}$	300.502

- 2. Express in words.
 - a. 0.008 = eight thousandths
 - b. 15.062 = fifteen and sixty-two thousandths
 - c. 607.409 Six hundred seven and four hundred nine thousand this
- 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

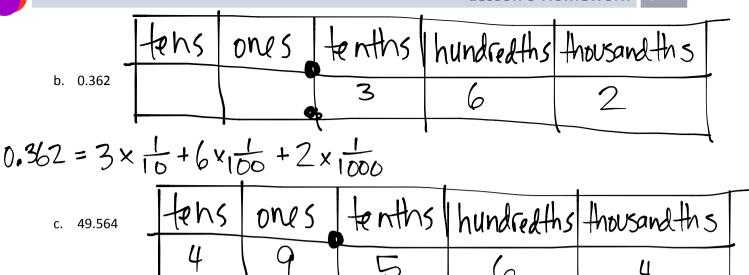
tens	ones	tenths	hundredths	thousandths
2	7	3	4	6

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

OR

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





$$49.564 = 4\times10 + 9\times1 + 5\times0.1 + 6\times0.01 + 4\times0.001$$

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

a.
$$3 \times 10 + 5 \times 1 + 2 \times \left(\frac{1}{10}\right) + 7 \times \left(\frac{1}{100}\right) + 6 \times \left(\frac{1}{1000}\right) = 35.276$$

b.
$$9 \times 100 + 2 \times 10 + 3 \times 0.1 + 7 \times 0.001 = 920.307$$

c.
$$5 \times 1000 + 4 \times 100 + 8 \times 1 + 6 \times \left(\frac{1}{1000}\right) + 5 \times \left(\frac{1}{10000}\right) = 540$$

- 5. At the beginning of a lesson, a piece of chalk is 2.967 of an inch. At the end of lesson, it's 2.308 of an inch. Write the two amounts in expanded form using fractions.
 - a. At the beginning of the lesson:

$$2.967 = 2 \times 1 + 9 \times \frac{1}{10} + 6 \times \frac{1}{100} + 7 \times \frac{1}{1000}$$

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.

N:
$$412.638 = 4\times100+1\times10+2\times1+6\times10+3\times100+8\times1000$$

C: $412.638 = 4\times100+1\times10+2\times1+6\times0.1+3\times0.01+8\times0.001$

