

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Complete the following chart:

Standard Form	Word Form	Expanded Form
	four thousandths	
11.037		
		$7 \times 10 + 4 \times 1 + 6 \times \left(\frac{1}{10}\right) + 9 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1000}\right)$
57.281		
		$5 \times 100 + 3 \times 10 + 8 \times 0.1 + 9 \times 0.001$
	six hundred eight thousandths	
	six hundred and eight thousandths	

2. Which expression is equivalent to 83,120 in expanded form using powers of 10?

A.  $(8 \times 10^5) + (3 \times 10^4) + (1 \times 10^3) + (2 \times 10^2)$

B.  $(8 \times 10^4) + (3 \times 10^3) + (1 \times 10^3) + (2 \times 10^2)$

C.  $(8 \times 10^4) + (3 \times 10^3) + (1 \times 10^2) + (2 \times 10^1)$

D.  $(8 \times 10^1) + (3 \times 10^1) + (1 \times 10^1) + (2 \times 10^1)$

3. Mr. Pham wrote 2.619 on the board. Christy says it is two and six hundred nineteen thousandths. Amy says it is  $(2 \times 1) + (6 \times 0.1) + (1 \times 0.01) + (9 \times 0.001)$ . Who is right? Use words and numbers to explain your answer.

4. Which equation correctly shows the relationship between the numbers 2,560 and 256?

A.  $2,560 = 1000 \times (2 + 5 + 6)$

B.  $2,560 = 10 \times (2 + 5 + 6)$

C.  $2,560 = 10 \times (200 + 50 + 6)$

D.  $2,560 = \frac{1}{10} \times (200 + 50 + 6)$

5. Complete the following chart:

Standard Form	Word Form	Expanded Form
0.249		
		$(4 \times 1,000) + (2 \times 100) + (7 \times 1) + (3 \times 0.01) + (4 \times 0.001)$
	one and three hundred twenty-four thousandths	
403.608		
	twenty-four thousandths	
		$3 \times 10 + 5 \times 1 + 8 \times \left(\frac{1}{10}\right) + 2 \times \left(\frac{1}{100}\right) + 7 \times \left(\frac{1}{1000}\right)$
0.005		

6. Isaiah is thinking of the number 9.52 in his head. Decide whether each of these has the same value as 9.52 and explain your reasoning.

- a. Nine and fifty-two tenths

b.  $9 + 0.5 + 0.02$

c. 9 ones + 5 tenths + 2 hundredths

d.  $(9 \times 1) + \left(5 \times \frac{1}{10}\right) + \left(2 \times \frac{1}{100}\right)$

e. 952 tenths

f. 952 hundredths

## Sources

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Name: \_\_\_\_\_

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1. Complete the following chart:

Standard Form	Word Form	Expanded Form
0.926		
		$7 \times 1,000 + 3 \times 100 + 6 \times 1 + 1 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1000}\right)$
	fourteen and two hundred fifty-four thousandths	
801.509		
	sixty-five thousandths	
		$8 \times 10 + 3 \times 1 + 1 \times 0.1 + 9 \times 0.01 + 2 \times 0.001$
0.002		

2. 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:

3. Four hundred sixty-nine and eight hundredths can also be written as:

A. 460.908

B. 460.98

C. 469.08

D. 469.800

4. Complete the following chart:

Standard Form	Word Form	Expanded Form
0.367		
		$1 \times 1,000 + 1 \times 100 + 6 \times 1 + 2 \times 0.01 + 5 \times 0.001$
	seven and three hundred five thousandths	
7600.08		
	five and nine thousandths	
		$2 \times 10 + 5 \times 1 + 9 \times \left(\frac{1}{10}\right) + 5 \times \left(\frac{1}{100}\right) + 5 \times \left(\frac{1}{1000}\right)$
0.06		

5. 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.

6. Identify the answer choices that represent the same value as “forty-two and nine hundred five thousandths”.

Select the **two** correct answers.

A. 42,905

B.  $4 \times 10 + 2 \times 1 + 9 \times \frac{1}{10} + 5 \times \frac{1}{100}$

C. 42.095

D.  $4 \times 10 + 2 \times 1 + 9 \times \frac{1}{10} + 5 \times \frac{1}{1000}$

E. 42.905

F.  $4 \times 10 + 2 \times 1 + 9 \times \frac{1}{100} + 5 \times \frac{1}{1000}$

## Sources

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