Reading and Writing Decimals to Thousandths

Reading and Writing Decimals to Thousandths: Models and Computation

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Use and for the decimal point and the last occupied place for the fractional unit: 8.043 is eight and forty-three thousandths. Its expanded form is $8 + 0.04 + 0.003$. Zeros keep each digit in its place.

Worked example

Write in standard form: ten and four hundred seven thousandths.

1. The last digit is in thousandths: the decimal part is $\frac{407}{1000}$.
2. Place-value expansion: $10 + 0.4 + 0 + 0.007 = 10.407$.
3. The word form is ten and four hundred seven thousandths; the word and marks the decimal point.
Answer: 10.407; ten and four hundred seven thousandths.

Practice Problems

Show your thinking.

1. Write 12.308 in words.

2. Write in standard form: four and seventy-one thousandths.

3. Write 6.925 in expanded form using decimal addends.

4. Write the decimal part of 3.160 as thousandths, then write the entire number in words.

5. A reading has 9 ones, 2 tenths, 0 hundredths, and 4 thousandths. Write its standard and word forms.

6. A meter label must show 2.605 m in words and in expanded form. Write both.

7. A student calls 7.019 7 and 19 hundredths. Correct the place name and show why.

8. Create a decimal whose expanded form is $5 + 0.8 + 0.03 + 0$. Include a word label.

Answer Key

1. 12.308; twelve and three hundred eight thousandths.
2. 4.071; four and seventy-one thousandths.
3. $6 + 0.9 + 0.02 + 0.005$.
4. $\frac{160}{1000}$; three and one hundred sixty thousandths.
5. 9.204; nine and two hundred four thousandths.
6. two and six hundred five thousandths; $2 + 0.6 + 0 + 0.005$ m.
7. 7.019; seven and nineteen thousandths.
8. 5.830; five and eight hundred thirty thousandths.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The last digit is in thousandths: the decimal part is $\frac{308}{1000}$.
2. Place-value expansion: $12 + 0.3 + 0 + 0.008 = 12.308$.
3. The word form is twelve and three hundred eight thousandths; the word and marks the decimal point.

Problem 2

1. The last digit is in thousandths: the decimal part is $\frac{71}{1000}$.
2. Place-value expansion: $4 + 0 + 0.07 + 0.001 = 4.071$.
3. The word form is four and seventy-one thousandths; the word and marks the decimal point.

Problem 3

1. The last digit is in thousandths: the decimal part is $\frac{925}{1000}$.
2. Place-value expansion: $6 + 0.9 + 0.02 + 0.005 = 6.925$.
3. The word form is six and nine hundred twenty-five thousandths; the word and marks the decimal point.

Problem 4

1. The last digit is in thousandths: the decimal part is $\frac{160}{1000}$.
2. Place-value expansion: $3 + 0.1 + 0.06 + 0 = 3.160$.
3. The word form is three and one hundred sixty thousandths; the word and marks the decimal point.

Problem 5

1. The last digit is in thousandths: the decimal part is $\frac{204}{1000}$.
2. Place-value expansion: $9 + 0.2 + 0 + 0.004 = 9.204$.
3. The word form is nine and two hundred four thousandths; the word and marks the decimal point.

Problem 6

1. The last digit is in thousandths: the decimal part is $\frac{605}{1000}$.
2. Place-value expansion: $2 + 0.6 + 0 + 0.005 = 2.605$.
3. The word form is two and six hundred five thousandths; the word and marks the decimal point.

Problem 7

1. The last digit is in thousandths: the decimal part is $\frac{19}{1000}$.
2. Place-value expansion: $7 + 0 + 0.01 + 0.009 = 7.019$.
3. The word form is seven and nineteen thousandths; the word and marks the decimal point.

Problem 8

1. The last digit is in thousandths: the decimal part is $\frac{830}{1000}$.
2. Place-value expansion: $5 + 0.8 + 0.03 + 0 = 5.830$.
3. The word form is five and eight hundred thirty thousandths; the word and marks the decimal point.

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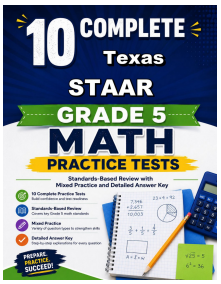

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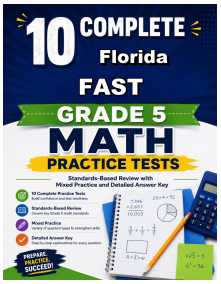

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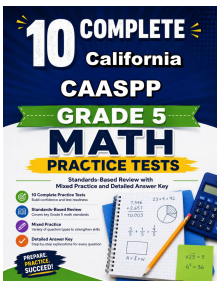

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