Reading and Writing Decimals to Thousandths

Reading and Writing Decimals to Thousandths: Apply, Compare, and Design

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: sixteen and twenty-five thousandths.

1. The last digit is in thousandths: the decimal part is $\frac{25}{1000}$.
2. Place-value expansion: $16 + 0 + 0.02 + 0.005 = 16.025$.
3. The word form is sixteen and twenty-five thousandths; the word and marks the decimal point.
Answer: 16.025; sixteen and twenty-five thousandths.

Practice Problems

Show your thinking.

1. A bottle label must show 408 thousandths of a liter in both standard and word form. Write both and an expanded form.

2. Design a three-place decimal label with 7 ones, no hundredths, 2 tenths, and 6 thousandths. Write standard, word, and expanded forms.

3. Write the decimal part of 8.017 as thousandths, then write the entire number in words.

4. A reading has 5 ones, 3 tenths, 0 hundredths, and 6 thousandths. Write its standard and word forms.

5. A measurement label is written as $5 + \frac{9}{100} + \frac{2}{1000}$ meters. Replace the fraction addends with decimals, then write the measurement in words.

6. A student calls 4.780 4 and 780 hundredths. Correct the place name and show why.

7. Write 9.250 in expanded form using decimal addends.

8. A label reads six and eighty-four thousandths. Write the decimal and explain the needed zero.

Answer Key

1. 0.408 L; zero and four hundred eight thousandths; $0.4 + 0.008$.
2. 7.206; seven and two hundred six thousandths; $7 + 0.2 + 0.006$.
3. $\frac{17}{1000}$; eight and seventeen thousandths.
4. 5.306; five and three hundred six thousandths.
5. 5.092 m; five and ninety-two thousandths of a meter.
6. 4.780; four and seven hundred eighty thousandths.
7. $9 + 0.2 + 0.05 + 0$.
8. 6.084.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. $408 \div 1000 = 0.408$ L.

2. $0.4 + 0.008 = 0.408$; the zero hundredths must remain between the digits.

Problem 2

1. The decimal parts are 0.2, 0, and 0.006.

2. $7 + 0.2 + 0.006 = 7.206$; the fractional digits name 206 thousandths.

Problem 3

1. The last digit is in thousandths: the decimal part is $\frac{17}{1000}$.

2. Place-value expansion: $8 + 0 + 0.01 + 0.007 = 8.017$.

3. The word form is eight and seventeen thousandths; the word and marks the decimal point.

Problem 4

1. The last digit is in thousandths: the decimal part is $\frac{306}{1000}$.

2. Place-value expansion: $5 + 0.3 + 0 + 0.006 = 5.306$.

3. The word form is five and three hundred six thousandths; the word and marks the decimal point.

Problem 5

1. $\frac{9}{100} = 0.09$ and $\frac{2}{1000} = 0.002$.

2. $5 + 0.09 + 0.002 = 5.092$ m; the decimal part is 92 thousandths.

Problem 6

1. The last digit is in thousandths: the decimal part is $\frac{780}{1000}$.

2. Place-value expansion: $4 + 0.7 + 0.08 + 0 = 4.780$.

3. The word form is four and seven hundred eighty thousandths; the word and marks the decimal point.

Problem 7

1. The last digit is in thousandths: the decimal part is $\frac{250}{1000}$.

2. Place-value expansion: $9 + 0.2 + 0.05 + 0 = 9.250$.

3. The word form is nine and two hundred fifty thousandths; the word and marks the decimal point.

Problem 8

1. Eighty-four thousandths is $\frac{84}{1000} = 0.084$.

2. $6 + 0.084 = 6.084$; the tenths place is zero.

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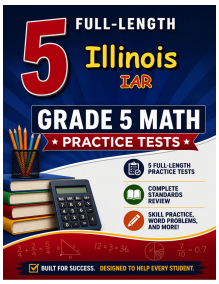

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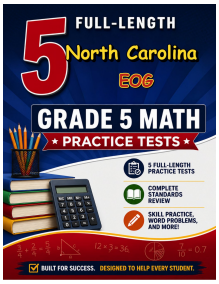

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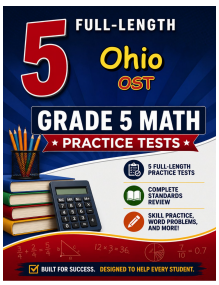

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