Reading and Writing Decimals to Thousandths

Reading and Writing Decimals to Thousandths: Find, Fix, and Work Backward

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: thirteen and ninety thousandths.

1. The last digit is in thousandths: the decimal part is $\frac{90}{1000}$.
2. Place-value expansion: $13 + 0 + 0.09 + 0 = 13.090$.
3. The word form is thirteen and ninety thousandths; the word and marks the decimal point.
Answer: 13.090; thirteen and ninety thousandths.

Practice Problems

Show your thinking.

1. A note says three and forty-two thousandths but prints 3.42. Rewrite the standard form, and show the decimal part as a fraction.

2. A reading has 8 ones, 4 tenths, 0 hundredths, and 6 thousandths. Write its standard and word forms.

3. Regroup 12 tenths and 35 thousandths into standard form. Then write the result in words.

4. Which equals 0.305: 3 tenths and 5 thousandths, or 3 hundredths and 5 thousandths? Explain without choosing a letter.

5. Write the standard forms for two and seven hundredths and two and seven thousandths. Explain which zero positions distinguish the labels.

6. Write 9.062 in expanded form using decimal addends.

7. A meter label must show 4.901 m in words and in expanded form. Write both.

8. Write 7.340 in words.

Answer Key

1. 3.042; decimal part $\frac{42}{1000}$.
2. 8.406; eight and four hundred six thousandths.
3. 1.235; one and two hundred thirty-five thousandths.
4. 3 tenths and 5 thousandths.
5. 2.07 and 2.007.
6. $9 + 0 + 0.06 + 0.002$.
7. four and nine hundred one thousandths; $4 + 0.9 + 0 + 0.001$ m.
8. 7.340; seven and three hundred forty thousandths.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Forty-two thousandths is $\frac{42}{1000} = 0.042$.
2. $3 + 0.042 = 3.042$; 3.42 instead has 420 thousandths.

Problem 2

1. The last digit is in thousandths: the decimal part is $\frac{406}{1000}$.
2. Place-value expansion: $8 + 0.4 + 0 + 0.006 = 8.406$.
3. The word form is eight and four hundred six thousandths; the word and marks the decimal point.

Problem 3

1. $12 \times 0.1 = 1.2$.
2. $1.2 + 0.035 = 1.235$; the fractional part is 235 thousandths.

Problem 4

1. $0.3 + 0.005 = 0.305$.
2. The other description gives $0.03 + 0.005 = 0.035$, a different number.

Problem 5

1. Seven hundredths is $7 \div 100 = 0.07$, giving $2 + 0.07 = 2.07$.
2. Seven thousandths is $7 \div 1000 = 0.007$, giving $2 + 0.007 = 2.007$.

Problem 6

1. The last digit is in thousandths: the decimal part is $\frac{62}{1000}$.
2. Place-value expansion: $9 + 0 + 0.06 + 0.002 = 9.062$.
3. The word form is nine and sixty-two thousandths; the word and marks the decimal point.

Problem 7

1. The last digit is in thousandths: the decimal part is $\frac{901}{1000}$.
2. Place-value expansion: $4 + 0.9 + 0 + 0.001 = 4.901$.
3. The word form is four and nine hundred one thousandths; the word and marks the decimal point.

Problem 8

1. The last digit is in thousandths: the decimal part is $\frac{340}{1000}$.
2. Place-value expansion: $7 + 0.3 + 0.04 + 0 = 7.340$.
3. The word form is seven and three hundred forty thousandths; the word and marks the decimal point.

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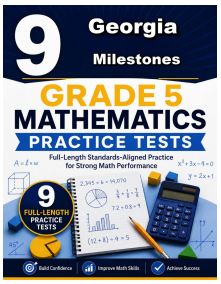

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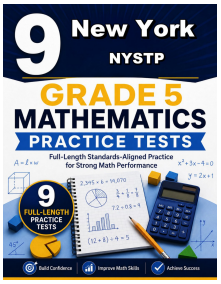

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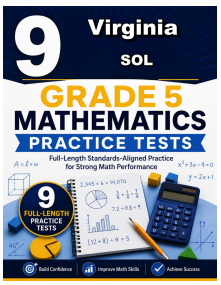

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