Reading and Writing Decimals to Thousandths

Grade 5 Math • Section 1.3

Name: _____	Date: _____	Score: _____ / 14

Quick Review and Helpful Hints

Decimal place values: Tenths (0.1), hundredths (0.01), thousandths (0.001).

Reading a decimal: Read the whole-number part, say "and" for the decimal point, read the digits after the decimal, then say the place value of the **last** digit. Example: 4.035 is "four and thirty-five thousandths."

Use expanded form: $3.274 = 3 + 0.2 + 0.07 + 0.004$.

Example: Write "twelve and sixty-seven thousandths" as a decimal and in expanded form.

"Twelve" is the whole-number part: 12. "And" marks the decimal point. "Sixty-seven thousandths" means the last digit lands in the thousandths place: 0.067. So the decimal is 12.067. Expanded form: $10 + 2 + 0.06 + 0.007$.

Answer: 12.067

Practice Problems

Write each number as a decimal or in word form.

1. Seven and four hundred nine thousandths = _____ _____
2. Thirty-two and eight tenths = _____ _____
3. Zero and fifteen hundredths = _____ _____
4. 5.206 in word form: _____ _____
5. 0.080 in word form: _____ _____
6. Eighty and three thousandths = _____ _____
7. 14.500 in word form: _____ _____
8. Two hundred six thousandths = _____ _____
9. 0.019 in expanded form: _____ _____
10. 7.305 in expanded form: _____ _____
11. $3 + 0.4 + 0.02 + 0.008 =$ _____ _____
12. $20 + 0.5 + 0.001 =$ _____ _____

Word Problems

13. A jeweler measures a diamond that weighs zero and eight hundred fifteen thousandths of a carat. Write this weight as a decimal number.

_____

14. A runner's time is 12.408 seconds. Write this time in word form and in expanded form.

_____

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Answer Keys

1. 7.409
2. 32.8
3. 0.15
4. five and two hundred six thousandths
5. eighty thousandths
6. 80.003
7. fourteen and five hundred thousandths
8. 0.206
9. $0.01 + 0.009$
10. $7 + 0.3 + 0.005$
11. 3.428
12. 20.501
13. 0.815
14. twelve and four hundred eight thousandths; $12 + 0.4 + 0.008$

Step-by-Step Explanations

1. Start with the main idea. For decimals to thousandths, four hundred nine thousandths is 0.409, so the number is 7.409. The last decimal place tells the name: tenths, hundredths, or thousandths.

2. Keep the work tidy. For decimals to thousandths, eight tenths means 0.8, so the number is 32.8. Expanded form is just the number split into its place-value parts.

3. Look at what the numbers mean. For decimals to thousandths, fifteen hundredths is $\frac{15}{100} = 0.15$. Trailing zeros can help with reading, even when they do not change the value.

4. Use the setup first. For decimals to thousandths, in 5.206, the decimal part is 206 thousandths. The last decimal place tells the name: tenths, hundredths, or thousandths.

5. Check the size of the answer. For decimals to thousandths, 0.080 is 80 thousandths, which is also 8 hundredths. Expanded form is just the number split into its place-value parts.

6. Match the operation to the words. For decimals to thousandths, three thousandths is 0.003, so the number is 80.003. Trailing zeros can help with reading, even when they do not change the value.

7. Write the important values first. For decimals to thousandths, 14.500 has 500 thousandths after the decimal point. The last decimal place tells the name: tenths, hundredths, or thousandths.

8. Follow the pattern carefully. For decimals to thousandths, two hundred six thousandths is $\frac{206}{1000} = 0.206$. Expanded form is just the number split into its place-value parts.

9. Start with the main idea. For decimals to thousandths, 0.019 has 1 hundredth and 9 thousandths. Trailing zeros can help with reading, even when they do not change the value.

10. Keep the work tidy. For decimals to thousandths, 7.305 has 7 ones, 3 tenths, and 5 thousandths. The last decimal place tells the name: tenths, hundredths, or thousandths.

11. Look at what the numbers mean. For decimals to thousandths, add the place values: $3 + 0.4 + 0.02 + 0.008 = 3.428$. Expanded form is just the number split into its place-value parts.

12. Use the setup first. For decimals to thousandths, add the place values: $20 + 0.5 + 0.001 = 20.501$. Trailing zeros can help with reading, even when they do not change the value.

13. Check the size of the answer. For decimals to thousandths, eight hundred fifteen thousandths is $\frac{815}{1000} = 0.815$. The last decimal place tells the name: tenths, hundredths, or thousandths.

14. Match the operation to the words. For decimals to thousandths, 12.408 has 12 ones, 4 tenths, and 8 thousandths. Expanded form is just the number split into its place-value parts.

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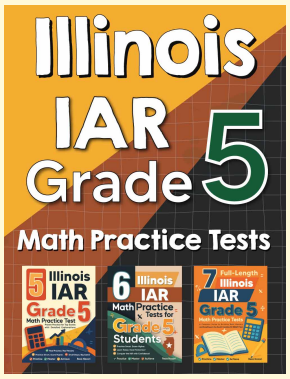

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