LESSON MAKER PRO

# Decimal Detectives

*Read, write, and build decimals*

**GRADE 4 · 4.N.3.7**

**4.N.3.7** "Read and write decimals in standard, word, and expanded form up to at least the hundredths place in a variety of contexts, including money."

NAME _____ DATE _____

## PLACE VALUE CLUES

The first digit after the decimal point shows tenths. The second digit shows hundredths. In expanded form, add the value of each nonzero digit. In word form, say the whole number, then "and," then name the decimal part by its last place.

## WORKED EXAMPLE

Write 3.28 in words and expanded form.

1. The 3 shows 3 ones.
2. The 2 shows 2 tenths, and the 8 shows 8 hundredths.
3. Add those values for expanded form. Use hundredths to name the decimal part.

**Answer: Three and twenty-eight hundredths; 3 + 2/10 + 8/100**

## PRACTICE 6 problems

**1** Write 0.56 in words and expanded form.

**ANSWER** _____

**2** Write seven and four hundredths in standard form.

**ANSWER** _____

**3** Write 12 + 3/10 in standard form and words.

**ANSWER** _____

**4** Write 5.09 in expanded form.

**ANSWER** _____

**5** Write eight and seventy-one hundredths in standard form and expanded form.

**ANSWER** _____

**6** Write 0.40 in words. Use hundredths to name the decimal part.

**ANSWER** _____

## APPLY IT Show your work

**1** You saved nine dollars and twenty-five cents for a game. Write the amount with a dollar sign. Then write it in expanded form using dollars.

WORK SPACE

**ANSWER** _____

**2** A bookmark at the school fair costs $4.06. Write the price in words using dollars and cents. Then write the amount in expanded form using dollars.

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A pencil case costs six and five hundredths dollars. A student writes $6.50. Explain the mistake. Then write the correct price with a dollar sign and in expanded form using dollars.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Decimal Detectives

**GRADE 4 · 4.N.3.7**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Write 0.56 in words and expanded form. | **Zero and fifty-six hundredths; 5/10 + 6/100** |
| 2 | Write seven and four hundredths in standard form. | **7.04** |
| 3 | Write 12 + 3/10 in standard form and words. | **12.3; twelve and three tenths** |
| 4 | Write 5.09 in expanded form. | **5 + 9/100** |
| 5 | Write eight and seventy-one hundredths in standard form and expanded form. | **8.71; 8 + 7/10 + 1/100** |
| 6 | Write 0.40 in words. Use hundredths to name the decimal part. | **Zero and forty hundredths** |

## PART 2 · APPLY IT

1. **$9.25; (9 + 2/10 + 5/100) dollars** Twenty-five cents is 25 hundredths of a dollar. The digits in $9.25 show 9 ones, 2 tenths, and 5 hundredths.
2. **Four dollars and six cents; (4 + 6/100) dollars** The 0 holds the tenths place, and the 6 shows 6 hundredths of a dollar.

## CHALLENGE

**The student put the 5 in the tenths place instead of the hundredths place. The correct price is $6.05, or (6 + 5/100) dollars.**

Accept equivalent wording that names the correct place value. For problem 6, the word form must use hundredths.