Standard, Word, and Expanded Form

Name: _____ **Date:** _____

Quick Review

Numbers can be represented in several different ways.

Standard form uses digits.

Example: 4,582

Word form uses words.

Example: four thousand five hundred eighty-two

Expanded form shows the value of each digit.

Example: 4,000 + 500 + 80 + 2

Expanded form helps us see the **place value** of every digit in a number.

Part A — Write in Standard Form

Write each number using digits:

1. three hundred forty-two _____
2. seven hundred nine _____
3. one thousand two hundred fifty-six _____
4. four thousand eighty-three _____
5. nine thousand seven hundred fourteen _____
6. twelve thousand six hundred thirty-five _____
7. forty-five thousand two hundred eight _____
8. one hundred three thousand four hundred seventy-two _____
9. six hundred twenty thousand fifteen _____
10. nine hundred eight thousand three hundred six _____

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Part B — Write in Word Form

Write each number using words.

1. 428

2. 705

3. 1,364

4. 5,092

5. 8,417

6. 23,650

7. 70,304

8. 146,829

9. 503,071

10. 920,405

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Part C — Write in Expanded Form

Write each number as the sum of the values of its digits.

Example: 6,374 = 6,000 + 300 + 70 + 4

1. 583 = _____
2. 729 = _____
3. 1,456 = _____
4. 3,082 = _____
5. 7,240 = _____
6. 12,638 = _____
7. 45,207 = _____
8. 83,619 = _____
9. 305,742 = _____
10. 670,091 = _____

Part D — Expanded Form to Standard Form

Write each number in standard form.

1. 500 + 40 + 7 = _____
2. 800 + 20 + 3 = _____
3. 2,000 + 600 + 70 + 5 = _____
4. 4,000 + 300 + 9 = _____
5. 9,000 + 80 + 2 = _____
6. 30,000 + 4,000 + 500 + 60 + 1 = _____
7. 70,000 + 2,000 + 300 + 8 = _____
8. 100,000 + 40,000 + 6,000 + 700 + 20 + 5 = _____
9. 500,000 + 8,000 + 30 + 4 = _____
10. 900,000 + 20,000 + 6,000 + 100 + 7 = _____

Part E — Complete the Table

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Complete the missing forms.

Standard Form	Word Form	Expanded Form
3,482	_____	_____
_____	six thousand two hundred seventeen	_____
_____	_____	8,000 + 500 + 30 + 4
12,405	_____	_____
_____	forty-three thousand seven hundred nine	_____
_____	_____	70,000 + 6,000 + 200 + 50 + 1
108,326	_____	_____
_____	five hundred twenty thousand forty-eight	_____

Part F — Understanding Place Value

1. Consider the number 6,482.

a. What is the value of the digit 6? _____

b. What is the value of the digit 4? _____

c. What is the value of the digit 8? _____

d. What is the value of the digit 2? _____

e. Write the number in expanded form.

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2. Consider the number 53,719.

a. Which digit is in the ten-thousands place? _____

b. Which digit is in the thousands place? _____

c. What is the value of the digit 7? _____

d. What is the value of the digit 1? _____

e. Write the number in expanded form.

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3. Consider the number 408,265.

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a. What is the value of the digit 4? _____

b. What is the value of the digit 8? _____

c. What is the value of the digit 2? _____

d. Which digit is in the tens place? _____

e. Write the number in expanded form.

Part G — What Do the Zeros Mean?

Zeros are important because they can act as **placeholders**.

Example:

5,042 = 5,000 + 40 + 2

There are zero hundreds, so we do not need to write "+ 0" in the expanded form.

Write each number in expanded form.

1. 4,507 = _____
2. 8,060 = _____
3. 20,304 = _____
4. 70,009 = _____
5. 305,080 = _____
6. 600,402 = _____

Part H — Find the Mistake

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Each student made a mistake. Correct the mistake and explain what went wrong.

Question 1

Alex wrote: 5,284 = 5,000 + 200 + 8 + 4

Correct expanded form:

What mistake did Alex make?

Question 2

Maya wrote: 40,607 = 40,000 + 600 + 70

Correct expanded form:

What mistake did Maya make?

Question 3

Sam wrote: three hundred twenty-five thousand forty-two = 325,402

Correct standard form:

Explain the mistake:

Part I — Build the Number

Use the clues to determine each number.

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1. My number has:

- 4 thousands
- 7 hundreds
- 2 tens
- 6 ones

My number is: _____ Expanded form: _____

2. My number has:

- 8 ten-thousands
- 3 thousands
- 0 hundreds
- 5 tens
- 1 one

My number is: _____ Expanded form: _____

3. My number has:

- 6 hundred-thousands
- 2 ten-thousands
- 4 thousands
- 9 hundreds
- 0 tens
- 7 ones

My number is: _____ Expanded form: _____

Part J — Challenge Questions

1. Write a number that has:

- 7 in the ten-thousands place
- 4 in the thousands place
- 8 in the hundreds place

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- 0 in the tens place
- 3 in the ones place

Standard form: _____

Word form:

Expanded form:

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2. A number has the expanded form:

300,000 + 20,000 + 5,000 + 700 + 4

What is the number in standard form?

Write the number in word form.

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3. The digit 6 appears twice in the number 264,615.

What is the value of the first 6?

What is the value of the second 6?

Why do the two 6s have different values?

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4. Create your own six-digit number.

Standard form:

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Word form:

Expanded form:

Circle one digit in your number and explain its place value.

Explain Your Thinking

1. How does expanded form help us understand the value of each digit?

2. Why is the digit 5 worth 5,000 in the number 25,814 but only 500 in the number 8,529?

3. Why are zeros important when writing numbers in standard form?

Exit Ticket

Consider the number:

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307,524

1. Write the number in word form.

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2. Write the number in expanded form.

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3. What is the value of the digit 7?

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4. What digit is in the hundreds place?

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5. Explain how the expanded form shows the place value of the digit 5.

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