

## **Expanded Form Worksheets**

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Part 1: Building a Foundation
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What is the primary purpose of writing a number in expanded form?
Hint: Think about how expanded form represents the value of each digit.
<ul><li>A) To simplify calculations</li><li>B) To show the value of each digit</li><li>C) To convert numbers into fractions</li></ul>
D) To solve equations
Which of the following are components of expanded form for whole numbers? (Select all that apply)
Hint: Consider the different place values in whole numbers.
A) Units
B) Tenths
C) Hundreds D) Thousandths
Define expanded form in your own words and explain why it is useful in mathematics.
Hint: Think about how expanded form breaks down numbers.

List the steps to convert the number 456 into expanded form.



Hint: Consider the value of each digit in the number.
1. Step 1
2. Step 2
3. Step 3
Part 2: Understanding and Interpretation
Which of the following numbers is correctly written in expanded form?
Hint: Look for the correct representation of each digit's value.
○ A) 700 + 50 + 6
○ B) 7 + 50 + 600
○ C) 70 + 500 + 6 ○ D) 7000 + 500 + 60
O = / 1 000 1 000 1 00
When writing the decimal 3.47 in expanded form, which of the following components are included? (Select all that apply)
(Select all that apply)
(Select all that apply)  Hint: Consider the place values of the digits in the decimal.  A) 3  B) 0.4
(Select all that apply)  Hint: Consider the place values of the digits in the decimal.  A) 3

Explain how expanded form helps in understanding the place value of digits in a number.

Hint: Think about how expanded form breaks down the number.



Part 3: Application and Analysis	_//
If the number 982 is written in expanded form, which of the following represents the hundreds place?	i
Hint: Identify the value of the hundreds digit in the number.  A) 9 B) 90 C) 900 D) 9000	
Convert the number 5.23 into expanded form. Which of the following expressions are correct? (Select all that apply)	i
Hint: Break down the number into its place values.  A) 5 + 0.2 + 0.03  B) 5 + 0.20 + 0.03  C) 5 + 0.23  D) 5.2 + 0.03	
Write the number 1,234 in expanded form and explain each step in your process.  Hint: Break down the number by place value.	

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Which statement best describes the relationship between expanded form and place value?
Hint: Consider how expanded form represents the value of digits.
<ul> <li>A) Expanded form ignores place value.</li> <li>B) Expanded form highlights the importance of place value.</li> <li>C) Expanded form only applies to whole numbers.</li> <li>D) Expanded form simplifies place value.</li> </ul>
Part 4: Evaluation and Creation
Which of the following numbers, when written in expanded form, would include the term 0.06?
Hint: Think about the decimal places in the number.
<ul><li>○ A) 4.6</li><li>○ B) 4.06</li><li>○ C) 4.60</li><li>○ D) 4.006</li></ul>
Evaluate the expanded form of 9,304. Which of the following are correct components? (Select all that apply)
Hint: Break down the number by place value.
<ul><li>□ A) 9,000</li><li>□ B) 300</li><li>□ C) 4</li><li>□ D) 40</li></ul>

Create a real-world scenario where understanding and using expanded form would be beneficial. Explain your reasoning and how expanded form would be applied.

Hint: Think about situations involving money or measurements.



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t: Consider how exr	anded form clarifies the value	of diaits.	