

5. 40+0.8+0.07

 $6.\ \ 1,000+300+40+1+0.5+0.006$

Unit 1

Offit 1		
Name:	Lesson 1.1	Grade 5A
Date:	Place Value	Worksheet (3)
places.	ecompose and regroup numbe	rs with up to 3 decimal
Composing Numbers		
 Involves combining 	ets of numbers to make another different place values to create ow that composed number is fi	e a single number.
Standard form is the nor itself.	rmal way we usually write num	bers. It's just the number
\square 235 \rightarrow standard form		
\square 4,812 \rightarrow standard form	L	
Write the number in stand	dard form:	
1. 3+0.2+0.05		
2. 7+0.04+0.008		
3. 12+0.3+0.07+0.006		
4. 200+30+0.4+0.007		

Decomposing Numbers

- Break numbers down into their component parts.
- Breaking them down into their individual place values.

Expanded Form is a way of breaking the number apart to show the value of each digit (based on place value). It shows how the number is built.

Decompose each of the following numbers into their place-value parts:

1. 472.36

2. 5,138.049

3. 86.207

Decomposing Negative numbers.

- A negative number is just a number less than zero.
- When we decompose a negative number, the negative applies to the **whole number**, including all its parts.

Key Points to Remember

- Every place-value part of a negative number is negative.
- The process of decomposing **does not change**, you just keep track of the negative sign.

Suppose we have -472.306:

- First, decompose the positive version: 472.306=400+70+2+0.3+0.006
- Then, apply the negative sign to **each part**, because the whole number is negative:

Decompose the following negative numbers into their place-value parts

1. -583.407

2. -42.305

3. -7,216.089

Regrouping numbers.

• Regrouping is rearranging values between place values.

Take your example: **0.546**

- Normally, the standard decomposition (expanded form) is: **0.5+0.04+0.006**
- But you can regroup the parts differently while keeping the total the same: 0.4+0.14+0.006=0.546
- Sofia is regrouping her number 12.486 in different ways. She writes down four regroupings:

1.
$$10 + 2 + 0.4 + 0.08 + 0.006$$

$$2. 12 + 0.4 + 0.08 + 0.006$$

$$3. 12 + 0.48 + 0.006$$

4.
$$12.4 + 0.08 + 0.006$$

Two of these regroupings are incorrect. Which ones are wrong?

If this number is a decimal number with three decimal places.
 259. 28

What could be the Missing number? _____