## Unit 4 Lesson 9: Same Digit, Different Value

### WU True or False: Expanded Expressions (Warm up)

#### Student Task Statement

Decide if each statement is true or false. Be prepared to explain your reasoning.

* $4,​000+600+70,​000=70,​460$
* $900,​000+20,​000+3,​000=920,​000+3,​000$
* $80,​000+800+8,​000=800,​000+80+8$

### 1 Card Sort: Large Numbers

#### Student Task Statement

Your teacher will give you and your partner a set of cards with multi-digit numbers on them.

1. Sort the cards in a way that makes sense to you. Be prepared to explain your reasoning.
2. Join with another group and explain how you sorted your cards.
3. Write each number in expanded form.
	1. 4,620
	2. 46,200
	3. 462,000
4. Write the value of the 4 in each number.
5. Compare the value of the 4 in two of the numbers. Write two statements to describe what you notice about the values.
6. How is the value of the 2 in 46,200 related to the value of the 2 in 462,000?

### 2 Expand Large Numbers

#### Student Task Statement

1. Express each number in standard form, expanded form, and word form.

| * number
 | * expanded form
 | * word form
 |
| --- | --- | --- |
| * 784,003
 |  |  |
|  | * $50,​000+9,​000+$ $300+60+1$
 |  |
|  |  | * eight hundred three thousand, ninety-nine
 |
| * 310,060
 |  |  |
|  |  | * nine hundred thirty-four thousand, nine hundred
 |

1. Choose two numbers from the table to make this statement true:
* The 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is ten times the value of the 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
1. Explain why you chose those numbers.
2. Find two classmates who chose different numbers than you did. Record their numbers. Take turns sharing your completed statements and explaining your reasoning.
	* The 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is ten times the value of the 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	* The 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is ten times the value of the 3 in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



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