



Math 4

1-3 Forms of Multi-digit Numbers

Name:

Date:

[CCSS.MATH.CONTENT.4.NBT.2](#)

Common Core Standards

Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.

1-3 Forms of Multi-digit Numbers

Numerical Periods & Expanded Notation

A group of three digits is called a period. Each period is separated by a comma. Say the name of the period at each comma.

- Standard form shows the number using digits
- Word form shows the number using words
- Expanded form expresses the number using the sum of the values of each digit
- Expanded notation expresses the number using the sum of the values of each digit expressed as a multiple of their place value

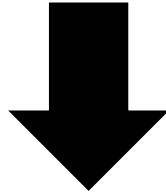
7,463,152

Millions Period			Thousands Period			Hundreds Period		
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Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
		7	4	6	3	1	5	2

Identify:

Place the numbers in their correct period



Fill in the table below for the following numbers:

375,284

6,843,209

4,352,176

Millions Period			Thousands Period			Hundreds Period		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones

Write out their full expanded notation below:

375,284 _____

6,843,209 _____

4,352,176 _____

Forms of Multi-digit Numbers

Situation:

1. Kevin wrote the expanded notation for:
417,352. Find and correct his mistakes.

$$(4 \times 100,000) + (4 \times 10,000) + (7 \times 1,000) + (3 \times 100) + (5 \times 100) + (2 \times 1)$$

Part A: Write out the number its different forms.

731,290

Expanded Form =

Expanded Notation =

Part B: Identify the number by its expanded form:

1. $(3 \times 1,000,000) + (6 \times 100,000) + (4 \times 10,000) + (7 \times 100) + (8 \times 1)$

2. $(5 \times 100,000) + (8 \times 10,000) + (3 \times 1,000) + (9 \times 100) + (2 \times 10) + (8 \times 1)$

Part C: Task Cards

Match the pink card to the blue card with the correct matching phrase of the given numerical expressions.

1.

3,058,921

a.

$$(8 \times 100,000) + (2 \times 10,000) + (7 \times 1,000) + (2 \times 100) + (5 \times 10) + (3 \times 1)$$

2.

1,738,952

b.

$$(3 \times 100,000) + (8 \times 10,000) + (5 \times 1,000) + (4 \times 100) + (1 \times 10) + (8 \times 1)$$

3.

827,253

c.

$$(3 \times 1,000,000) + (5 \times 10,000) + (8 \times 1,000) + (9 \times 100) + (2 \times 10) + (1 \times 1)$$

4.

385,418

d.

$$(1 \times 1,000,000) + (5 \times 100,000) + (9 \times 10,000) + (6 \times 1,000) + (7 \times 100) + (2 \times 10)$$

5.

1,596,720

e.

$$(1 \times 1,000,000) + (7 \times 100,000) + (5 \times 10,000) + (8 \times 1,000) + (9 \times 100) + (2 \times 10) + (1 \times 1)$$

Answer Key

Millions Period			Thousands Period			Hundreds Period		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
			3	7	5	2	8	4
		6	8	4	3	2	0	9
		4	3	5	2	1	7	6

375,284

$$(3 \times 100,000) + (7 \times 10,000) + (5 \times 1,000) + (2 \times 100) + (8 \times 10) + (4 \times 1)$$

6,843,209

$$(6 \times 1,000,000) + (8 \times 100,000) + (4 \times 10,000) + (3 \times 1,000) + (2 \times 100) + (9 \times 1)$$

4,352,176

$$(4 \times 1,000,000) + (3 \times 100,000) + (5 \times 10,000) + (2 \times 1,000) + (1 \times 100) + (7 \times 10) + (6 \times 1)$$

Situation 1

It should be written: $(4 \times 100,000) + (1 \times 10,000) + (7 \times 1,000) + (3 \times 100) + (5 \times 10) + (2 \times 1)$
 Kevin wrote (5×100) instead of (5×10) and $(4 \times 10,000)$ instead of $(1 \times 10,000)$

Part A:

$$700,000 + 30,000 + 1,000 + 200 + 90$$

$$(7 \times 100,000) + (3 \times 10,000) + (1 \times 1,000) + (2 \times 100) + (9 \times 10)$$

Part B:

1. **3,640,701**

2. **583,928**

Part C:

Task Cards

- 1.** **c.**
- 2.** **e.**
- 3.** **a.**
- 4.** **b.**
- 5.** **d.**