

Excellently Expanded!

Standard: MCC4.NBT.2 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.

Materials: Expanded Notation Cards (1-9, 10-90, 100-900, 1,000-9,000, 10,000-90,000, + sign

cards)

Number Cards (Approx. 35 numbers up to 999,999)

Answer Key Work Mat

Recording Sheet

1. Each pair of students arranges their expanded form cards so they may easily and quickly form numbers on their work mat.

- 2. The Leader places the number cards face down in the center of the group and all students place their hands on their shoulders.
- 3. The Leader turns over the top card and counts to 3.
- 4. Each pair tries to be the first to create the number on the card in expanded form, puts their hands on their shoulders and says, "Excellent."
- 5. The first pair to create the correct expanded form, and explain how they know they are correct, wins 5 points. The Leader or Co-Leader will check the answer key. All pairs who create the correctly expanded form of the number receive 2 points.
- 6. Each person then records the standard form of the number on the recording sheet. Repeat with the remaining cards as time allows.
- 7. Have each pair select 2 of the numbers to write in expanded form and "pizza" expanded form.

Challenges: Write each number in all forms possible.

Create numbers with more digits and greater place values.



1	2	3
4	5	6
7	8	9
0 Ones		
+	+	+

10	20	30
40	50	60
70	80	90
0 Tens		
+	+	+

100	200	300
400	500	600
700	800	900
0 Hundreds		
+	+	+

0 Thousands		
1,000	2,000	3,000
4,000	5,000	6,000
7,000	8,000	9,000
+	+	+

10,000	20,000	30,000
40,000	50,000	60,000
70,000	80,000	90,000
O Ten Thousands		
+	+	+

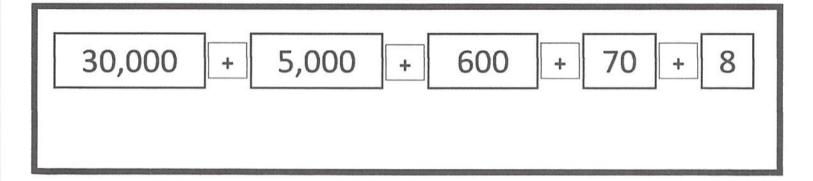
100,000	200,000	300,000
400,000	500,000	600,000
700,000	800,000	900,000
O Hundred Thousands		
+	+	+

2,526	461
4,012	129
9,298	503
73	813
45	992

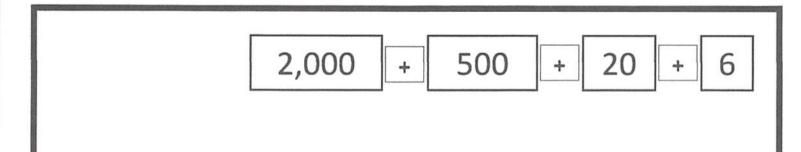
43,164
87,076
651,661
969,840
369,632



Example: 35,678



Example: 2,526



Excellently Expanded Recording Sheet

1		V	m	
4		1	1	-
1		-	Ų	1
1	D	3)	

Names	al Da	3					
Numbers:							_
		0-03-11					
Number in Standard Form	Expanded Form	"Pizz	a" Exp	anded	d Form	1	_
35,678	30,000 + 5,000 + 600 + 70 + 8		3	5	6	7	8
Word Form Thirty-five thousand six	hundred seventy- eight		3	0 5	0 0 6	0 0 0 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number in Standard Form	Expanded Form	"Pizz	a" Exp	ande	d Form	1	
2,526	2,000 + 500 + 20 + 6			2	5	2	6
Two thousand five hund	red twenty-six			2	0 5	0 0 2	0+ 0+ 0+ 6+

Excellently Expanded Recording Sheet



Names Numbers: Number in Standard Form Expanded Form "Pizza" Expanded Form Word Form Number in Standard Form Expanded Form "Pizza" Expanded Form Word Form

40,000 +3,000 +100 +60 + 4	43,164
80,000 + 7,000 + 0 + 70 + 6 tens	87,076

?00,000+60,000+9,000+800+40+0

ones

969,840 369,632

651,661

300,000+60,000+9,000+600+30+2

2,000 + 500 + 20 + 6	2,526
4,000 + 0 + 10 + 2 hundreds	4,012
9,000 + 200 + 90 + 8	9,298
70 + 3	73
40 + 5	45

40,000	+3,000	+100	+60 +	4
.0,000	0,000			•

43,164

+ 000,08	7,000 + 0 +	70 +	6
	tens		

87,076

500,000+50,000+1,000+600+60+1

651,661

300,000+60,000+9,000+800+40+0 ones

969,840

300,000+60,000+9,000+600+30+2

369,632

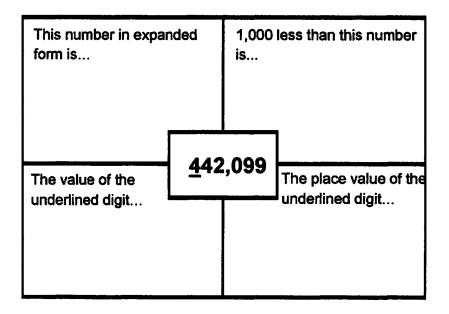
"Excellently Expanded" Point Sheet



NAMES:	POI	POINTS:								

Name

Excellently Expanded



Tom wrote the number 45,378.

Bill wrote the number 36,721

How many times greater is the 7 in Bill's

number than the 7 in Tom's number?

Use pictures, numbers, or words to demonstrate your reasoning.

PV Challenge

Is this statement true or false? Explain why.							
	57 + 23	>	67 + 3				
							
							
					<u> </u>		
·							
	•	•					

