



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.

Players:

2-6

Materials:

1 place value mat, 1 per pair PV Challenge Recording Sheet

Example Sheet

Deck of cards without the face cards, 1 per group (Aces = 1, Jokers are wild)

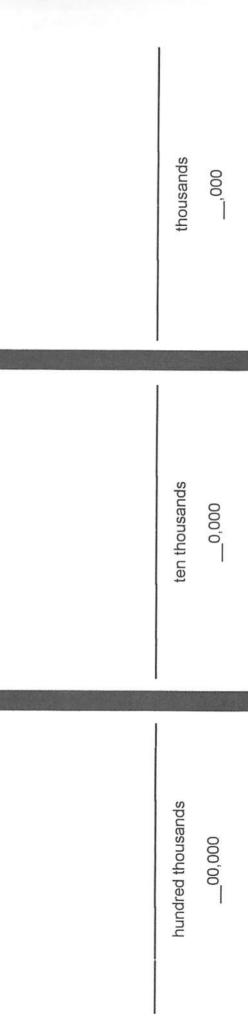
Greater Than/Less Than Spinner, paper clip, pencil

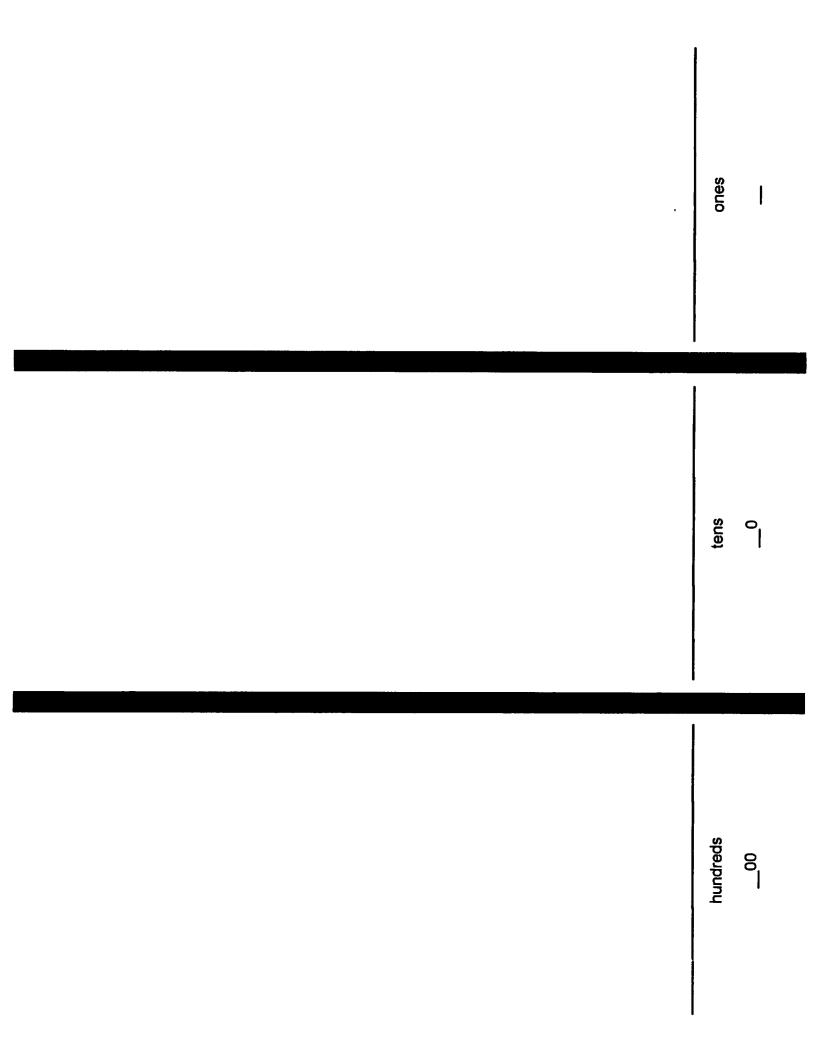
Directions:

1. The whole group reviews the examples and shares at least 2 things they understand about the game with their partner.

- 2. Each pair of students puts a place value mat in front of them.
- 3. One of the players spins the Greater Than/Less Than Spinner and shares which will be created this round.
- 4. The designated dealer passes one card to each pair.
- 5. Each pair decides where to put their card in order to create the greatest number or least number possible depending on which was spun.
- 6. After everyone has placed a card, they may not move them again. The dealer continues handing out cards until all places on each mat have been filled.
- 7. The pair with the "smallest" or "largest" number wins 2 points.
- 8. Each pair receives a point if they can read their number correctly and identify a portion of their number. ("My number is 714,965. I have 9 hundreds because there is a 9 in the hundreds place.)
- 9. 5 points are given to each pair who can write a comparison statement on their whiteboard about the numbers that were created. ("Josie and Eli have a 6 in the hundreds place. We have a 9 in the hundreds place. We have 3 more hundreds than they do.")

Challenge: Place criteria on the number that can be created such as, "The number must be a multiple of 2."





Greater Than Less Than

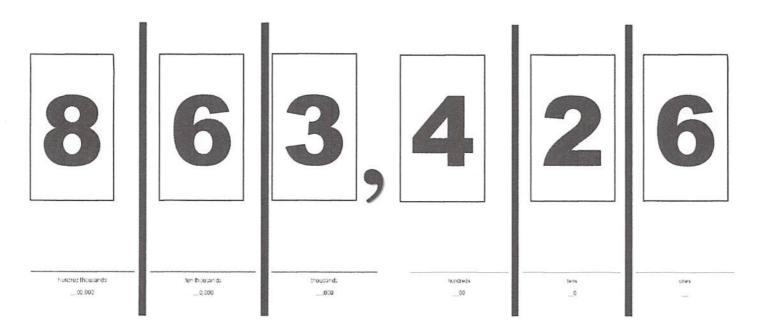


Greater Than

Less Than

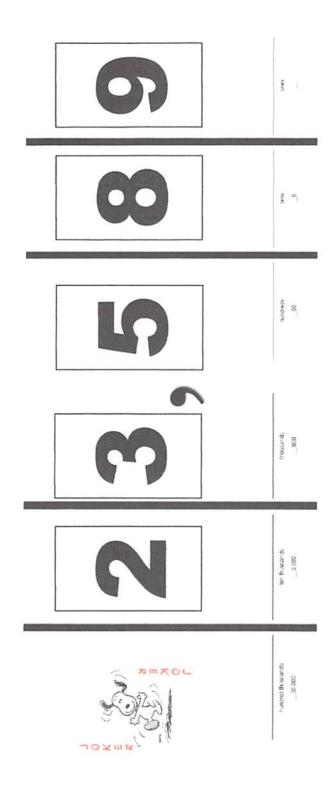
> Use a paper clip and pencil for spinner.

"The PV Challenge Game" **EXAMPLE 1**



- 1. The spinner landed on "Greater Than," so the cards were to be placed making the greatest number possible.
- 2. The last digit this pair received was the 8. They were hoping to get a 9, but they thought 8 was pretty good.
- 3. The pair read their number as "Eight hundred sixty three thousand four hundred twenty-six."
- 4. The pair identified the 8 as the digit in the hundred thousand's place, so they stated, "We have 8 hundred thousands.
- 5. The pair next to them got a 9 and put it in the hundred thousand's place, so they made this comparison statement, "We have an 8 in the hundred thousand's place, but they have a 9 which is 1 hundred thousand more than we have in the thousand's place."
- 6. On their white board they wrote, 800,000 < 900,000.
- 7. This pair received a total of 6 points because they could read their number and they made an accurate comparison statement.

"The PV Challenge Game" EXAMPLE 2



- The spinner landed on "Less Than," so the cards were to be placed making the smallest number possible.
- wanted. Since they are trying to make the smallest number possible, they decided to make this number a 1. The the first card the pair got was a Joker Card. This card is "wild" and they could make it any number they The pair read their number as "One hundred twenty-three thousand five hundred eighty-nine." Ri
- The pair identified the 9 as the digit in the one's place, so they stated, "We have 9 ones." They also added that they were really glad that the 9 wasn't in the hundred thousand's place. es.
- The pair next to them put a 1 in the one's place, so they made this comparison statement, "We have a 9 in the one's place, but they have a 9 fewer ones than we have."
- On their white board they wrote, 1 < 9.
- This pair received a total of 8 points because they create the smallest number, they could read their number, and they made an accurate comparison statement 6.5

The PV Challenge Recording Sheet

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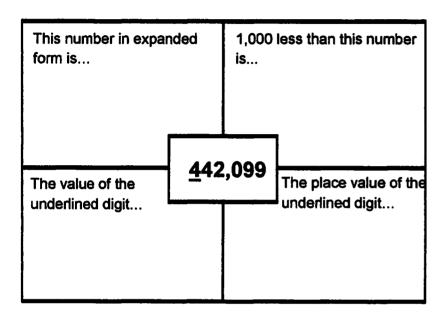


"The PV Challenge" Point Sheet

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ROTATION ©2015 Glenna Tabor										

Name

Excellently Expanded



On the lines below, explain now the manipulative activity,					
"Excellently Expanded" helped you understand expanded form					
					
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PV Challenge

Is this statement true or false?	Explain why.
57 + 23 > 67 + 3	



