

Tier 3 Intervention Lessons

2.NBT.4

Learning Target: I will compare numbers to 1,000

Readiness for 3.NBT.2: Add and subtract 3-digit numbers

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Tier 3 Intervention Planning Guide

Learning Target: I will compare numbers to 1,000

Readiness for adding and subtracting 3-digit numbers

	Recommended Actions				
Beginning (5 min.)	 Review the learning target with the whole group Ask each student to set a goal for the day based on their previous Quick Check Score Have each student use a highlighter to plot their goal for the day 				
Middle (15 min.)	 Model solving a word problem – "I do" (Sessions 1, 3 and 6 only) Guided Practice – "We do" Sessions 1 and 2: Compare numbers to 1,000 using base-ten blocks Sessions 3, 4 and 5: Compare numbers to 1,000 using base-ten drawings Sessions 6, 7 and 8: Compare numbers to 1,000 using base-ten understanding 				
End (10 min.)	 Bring the students back together. Ask students to reflect on their progress towards the learning target What did I learn today about comparing numbers? How confident do you feel about comparing numbers on my own?				
After Session 6	 Differentiation Options: Allow students who met the learning goal to work independently while others do the guided practice during the next session Exit students who met the learning goal for a third time Problem solve with a team to plan additional support for students who do not meet the learning goal within 8 sessions 				



Session 1: Modeling (I Do)

Learning Target: I will compare numbers to 1,000 **Readiness** for adding and subtracting 3-digit numbers

Alpha Elementary School had a walk-a-thon fund raiser. The 3rd grade students raised \$235 and the 4th grade students raised \$197. Which grade-level raised the most amount of money?

Session 1: Modeling (I Do - Teacher Notes)

Learning Target: I will compare numbers to 1,000

Readiness for adding and subtracting 3-digit numbers

Alpha Elementary School had a walk-a-thon fund raiser. The 3rd grade students raised \$235 and the 4th grade students raised \$197. Which grade-level raised the most amount of money?

I am going to think aloud to model solving this problem.

Your job is to watch, listen, think and ask questions.

First, it is important to know what the problem is about.

The problem is about a school fund raiser.

Second, I need to determine what I need to find.

I need to find which grade-level raised the most money.

Third, I need to determine what I know.

I know that the 3rd grade students raised \$235 and the 4th grade students raised \$197.

Fourth, I need to figure out what I can try.

I am going to try using base-ten blocks and place-value cards to model each dollar amount and compare them.

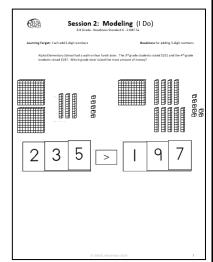
I will begin by representing each dollar amount using place-value cards... **235** and **197**. (Build 235 and 197 with place-value cards.)

Next, I will represent each number with base-ten blocks...235 can be built with 2 hundreds, 3 tens and 5 ones. And, 197 can be built with 1 hundred, 9 tens and 7 ones. (Build each number with base-ten blocks)

Since 235 has more hundreds than 197, then 235 is the greater number.

We can show this comparison with the symbol that opens to the greater number. (Set the greater than sign ">" between the two numbers.)

We can say that the number 235 is greater than 197. Wan can also say that the number 197 is less than 235.



Last, I need to make sure that my answer makes sense.

I found that the 3rd grade students raised more than the 4th grade students. It makes sense because I knew how much money each team raised and I modeled the problem with base-ten blocks to compare both numbers.

Place-Value Cards (1 → 100)

Less Than	Sreater Than	Equal to	+ -	- X	•
5		0		O	O
	9	5	0	9	O
3	8		0	8	O
2	7	3	0	7	O
	6	2	0	6	O



Place-Value Cards (200 → 900)

2	0	0	3	0	0
	0	O	5	0	O
6	0	O	7	0	0
8	0	0	9	0	0

Learning Target: I will compare numbers to 1,000

Session 1: Guided Practice (We Do)

Materials:

- Base-Ten Blocks (10 hundreds, 10 tens and 10 ones per student)
- Place-Value Cards

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use base-ten blocks and place-value cards to compare the two numbers or check your work.

1.		2.
	317 341	475 459
3.		4.
	235 253	319 392

You Do Together: (As a class, or in small groups)

> Students take turns leading and repeat the steps to compare numbers to 99.

5. 572 <u>257</u>	6. 403 430
7. 428 <u>289</u>	8. 249 294
9. 316 <u> </u>	10. 516 497



Session 1: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form A

Name			Date			
Direction	Learning Target: I will compare numbers to 1,000. Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)					
1.	217 241	2.	875 859			
3.	635 653	4.	919 392			
5.	372 257	6.	803 830			

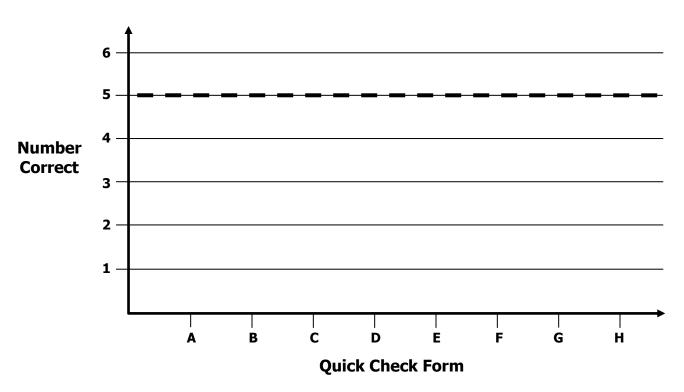


Growth Chart

Name	Date
------	------

Learning Target: I will compare numbers to 1,000.

Goal: 5 out of 6 correct



Intervention	Date	Score
Session 1:		
Session 2:		
Session 3:		
Session 4:		
Session 5:		
Session 6:		
Session 7:		
Session 8:		



Learning Target: I will compare numbers to 1,000

Session 2: Guided Practice (We Do)

Materials:

Base-Ten Blocks (10 hundreds, 10 tens and 10 ones per student)

Place-Value Cards (See Session 1)

We Do Together: (Teacher Actions)

> Say the comparison statement and write the answer if you know it.

> Use base-ten blocks and place-value cards to compare the two numbers or check your work.

1.	318 321	2. 485 <u>458</u>
3.	247 274	4. 519 <u> </u>

You Do Together: (As a class, or in small groups)

> Students take turns leading and repeat the steps to compare numbers to 99.

5.	472 297	6.	506 560
7.	328 389	8.	239 293
9.	416 461	10.	615 597



Session 2: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form B

Name			Date		
Learning Target: I will compare numbers to 1,000. Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)					
1.	328 295	2.	749 794		
3.	516 532	4.	916 897		
5.	705 750	6.	372 427		



Session 3: Modeling (I Do)

Learning Target: I will compare numbers to 1,000 **Readiness** for adding and subtracting 3-digit numbers

Emily and Jacob had a contest to see who could jump rope the most times in 10 minutes. Emily jumped 407 times and Jacob jumped 470 times. Who won the contest?

15



Session 3: Modeling (I Do - Teacher Notes)

Learning Target: I will compare numbers to 1,000

Readiness for adding and subtracting 3-digit numbers

Emily and Jacob had a contest to see who could jump rope the most times in 10 minutes. Emily jumped 407 times and Jacob jumped 470 times. Who won the contest?

I am going to think aloud to model solving this problem.

Your job is to watch, listen, think and ask questions.

First, it is important to know what the problem is about.

The problem is about Emily and Jacob having a jump rope contest.

Second, I need to determine what I need to find.

I need to find who jumped rope the most times in 10 minutes and won the contest.

Third, I need to determine what I know.

I know Emily jumped rope 407 times and Jacob jumped rope 470 times in ten minutes.

Fourth, I need to figure out what I can try.

This time, I am going to try making base-ten drawings to compare the numbers 407 and 470.

I will begin by writing what we know...Emily jump roped 407 times and Jacob jump roped 470 times. (Write *Emily - 407 and Jacob - 470*)

Next, I will draw 4 hundreds, zero tens and 7 ones and write the expanded form of the number to represent Emily's total. I will also draw 4 hundreds, 7 tens and zero ones and write the expanded form of the number to represent Jacob's total. (Draw each number and write them in expanded form)

Since the numbers 470 and 407 have the same number of hundreds, I need to compare the tens...407 has zero tens and 470 has 7 tens...so 407 is less than 470, or I can say that 470 is greater than 407.

Jacob did more jump ropes in 10 minutes to win the contest.

Last, I need to make sure that my answer makes sense.

I found that Jacob won the contest. It makes sense because I knew the number of times each student jump roped in ten minutes and I used a math drawing to compare both numbers to see that Jacob jumped more than Emily.

MATH	Session 3: N	Modeling (I Do)
Learning Target: I will co	mpare numbers to 1,000	Readiness for adding and subtracting 3-digit numbers
Emily and Jacob ji times and Jacob ji	ad a contest to see who couli imped 470 times. Who won	d jump rope the most times in 10 minutes. Emily jumped 407 the contest?
Emily – 407 Jump	,	Jacob – 470 Jumps



Learning Target: I will compare numbers to 1,000

Session 3: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use base-ten drawings and expanded notation to compare the two numbers or check your work.

1.

2.

3.



Learning Target: I will compare numbers to 1,000

Session 3: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading and repeat the steps to compare numbers to 1,000.

4.

5.

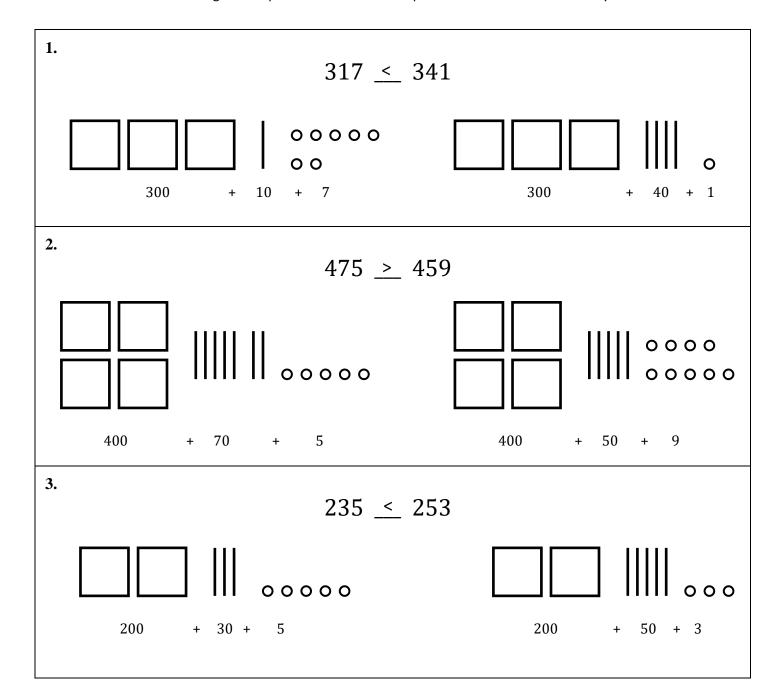
6.

Learning Target: I will compare numbers to 1,000

Session 3: Guided Practice (We Do – Teacher Notes)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use base-ten drawings and expanded notation to compare the two numbers or check your work.





Session 3: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form C

Name	2		Date
Learning	Target: I will compare numbers to 1,00	00.	
	e: 3 minutes)		
1.		2.	
	625 652		971 928
3.		4.	
	408 399		803 830
5.		6.	
	287 378		781 729



Learning Target: I will compare numbers to 1,000

Session 4: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use base-ten drawings and expanded notation to compare the two numbers or check your work.

1.

419 ___ 431

2.

385 ___ 368

3.

247 ___ 274



Learning Target: I will compare numbers to 1,000

Session 4: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading and repeat the steps to compare numbers to 1,000.

4.

187 ___ 213

5.

305 ___ 320

6.

215 ___ 167



Session 4: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form D

Name		Date
Learning Target: I will compare numbers to 1,0	00.	
Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)		
1.	2.	
461 397	736	762
3.	4.	
572 527	216	198
5.	6.	
948 984	495	594



Learning Target: I will compare numbers to 1,000

Session 5: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use base-ten drawings and expanded notation to compare the two numbers or check your work.

1.

315 ___ 351

2.

263 ___ 248

3.

136 ___ 163



Learning Target: I will compare numbers to 1,000

Session 5: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading and repeat the steps to compare numbers to 1,000.

4.

281 ___ 278

5.

308 ___ 380

6.

219 ___ 231



Session 5: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form E

Name	2		Date
Learning	Target: I will compare numbers to 1,0	000.	
	e: 3 minutes)		
1.		2.	
	217 241		875 859
3.		4.	
	635 653		919 392
5.		6.	
	372 257		803 830



Session 6: Modeling (I Do)

Learning Target: I will compare numbers to 1,000 **Readiness** for adding and subtracting 3-digit numbers

Caden and Madison each recorded the number of push-ups they did during a 5 day physical education activity. Caden recorded 104 push-ups and Madison recorded 140 push-ups. Which student did the most push-ups during the 5 day activity?



Session 6: Modeling (I Do - Teacher Notes)

Learning Target: I will compare numbers to 1,000

Readiness for adding and subtracting 3-digit numbers

Caden and Madison each recorded the number of push-ups they did during a 5 day physical education activity. Caden recorded 104 push-ups and Madison recorded 140 push-ups. Which student did the most push-ups during the 5 day activity?

First, it is important to know what the problem is about.

This problem is about Caden and Madison doing push-ups during a physical education activity.

Second, I need to determine what I need to find.

I need to find which student did more push-ups during the 5 day activity.

Third, I need to determine what I know.

I know that Caden recorded 104 push-ups and Madison recorded 140 push-ups.

Fourth, I need to figure out what I can try.

This time, I am going to try thinking about the place values of each number to compare them.

I will begin by writing the number of push-ups that Caden and Madison did in standard form and expanded form.

<u>Caden</u>	<u>Madison</u>
104	140
100 + 4	100 + 40

Since both numbers have an equal value of hundreds, I need to look at the total value of tens. 104 does not have any tens and 140 has 4 tens. Therefore, 104 is less than 140, or I can say that 140 is greater than 104.

Last, I need to make sure that my answer makes sense.

I found that Madison did more push-ups than Caden. It makes sense because I knew how many push-ups each person did and I modeled the problem with expanded notation to compare them.



Learning Target: I will compare numbers to 1,000

Session 6: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use expanded notation to compare the two numbers or check your work.

1. 743 <u>762</u>	2. 281 319
3. 473 429	4. 527 702



Learning Target: I will compare numbers to 1,000

Session 6: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to compare numbers to 99.

5.	736 673	6.	971 928
7.	608 599	8.	352 381
9.	705 576	10.	801 799



Session 6: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form F

Name	Date
Learning Target: I will compare numbers to 1,0 Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)	000.
1. 328 295	2. 749 794
3. 516 532	4. 916 897
5. 705 750	6. 372 427



Learning Target: I will compare numbers to 1,000

Session 7: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use expanded notation to compare the two numbers or check your work.

1. 728 <u>743</u>	392 401
3. 582 539	4. 415 601



Name _____ Date ____

Learning Target: I will compare numbers to 1,000

Session 7: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to compare numbers to 99.

5.	536 483	6.	861 829
7.	709 699	8.	463 482
9.	604 597	10.	401 398



Session 7: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form G

Name	Date				
earning Target: I will compare numbers to 1,000.					
Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)					
1.	2.				
625 652	971 928				
3.	4.				
408 399	803 830				
5.	6.				
287 378	781 729				



Name _____ Date ____

Learning Target: I will compare numbers to 1,000

Session 8: Guided Practice (We Do)

We Do Together: (Teacher Actions)

- > Say the comparison statement and write the answer if you know it.
- > Use expanded notation to compare the two numbers or check your work.

1.	543 562	2.	381 419
3.	673 629	4.	237 402



Name _____ Date ____

Learning Target: I will compare numbers to 1,000

Session 8: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to compare numbers to 99.

5.	635 536	6.	817 832
7.	408 399	8.	253 281
9.	507 470	10.	701 699



Session 8: Self-Reflection

Learning Target: I will compare numbers to 1,000

Briefly discuss student responses

- ➤ What did I learn today about comparing numbers?
- ➤ How confident do I feel about comparing numbers on my own?

 (Thumbs up, down, or sideways)



Quick Check - Form H

Name	Date		
Learning Target: I will compare numbers to 1,000.			
Directions: Fill in the blank. (>, <, =) (Work time: 3 minutes)			
1.	2.		
461 397	736 762		
3.	4.		
572 527	216 198		
5.	6.		
948 984	495 594		



Independent Practice

Learning Target: I will compare numbers to 1,000
Title of Game: Play "Whose number is Greater?"
Number of Players: 2
Objective: To be the player with the most (or least) cards at the end of the game.
Materials:
▶ 1 set of number-cards per player (Player A – Set A and Player 2 – Set B)
> 1 recording sheet per group
Directions:
> Each player turns over their top card and writes their number on the recording sheet
The player with the greater number circles their number and says,
"My number is greater than, because"
The player with the lesser number responds by saying,
"My number is less than, because"
The player with the greater number takes both cards
Repeat until all cards have been played
Decide the Winner:
At the end of the game, the teacher flips a coin
 If the coin lands heads up, the winner is the player with the greater number of cards
 If the coin lands tails up, the winner is the player with the lesser number of cards



Learning Target: I will compare numbers to 1,000

Independent Practice: Whose Number is Greater?(Recording Sheet)

Directions:

- **Each** player turns over their top card and writes their number on the recording sheet.
- > The player with the **greater** number circles their number and says,

"My number ____ is greater than ____, because ____."

The player with the lesser number responds by saying,

"My number ____ is less than ____, because ____."

- The player with the greater number takes both cards.
- > Repeat until all cards have been played.

		Round 2			
Dlavar 1			Dlavor 1		
Player 1	Player 2		Player 1	Player 2	
		Round 4			
 Plaver 1	Player 2		Player 1	Player 2	
1 layer 1	riayer z		r layer 1	- Tayer 2	
		Round 6			
Player 1	Player 2		Player 1	Player 2	
		Round 8			
Player 1	Player 2		Player 1	Player 2	
		Round 10			
Player 1	Player 2		Player 1	Player 2	
	Player 1	Player 1 Player 2 Player 1 Player 2 Player 1 Player 2	Player 1 Player 2 Round 4 Player 1 Player 2 Round 6 Player 1 Player 2 Round 8 Player 1 Player 2 Round 10	Player 1 Player 2 Round 4 Player 1 Player 2 Player 1 Player 1 Player 2 Round 6 Player 1 Player 2 Player 1 Round 8 Player 1 Player 2 Player 1 Round 10	Player 1 Player 2 Player 1 Player 2 Round 4 Player 1 Player 2 Player 1 Player 2 Round 6 Player 1 Player 2 Player 1 Player 2 Round 8 Player 1 Player 2 Round 8 Player 1 Player 2 Round 10



3-Digit Number Cards (Set A)

257 Set A	275 Set A	339	393
457 Set A	475	649 Set A	694 Set A
549 Set A	594 Set A	Less Than	Set A



3-Digit Number Cards (Set B)

23 9	293	357 Set B	375
486	468	586 Set B	568 Set B
686 Set B	668 Set B	Less Than	Set B



Questions for Solving Word Problems

Q_1	
	What is the problem about?
Q_2	
	What do I need to find?
Q ₃	
	What do I know?
Q_4	
	What can I try?
Q_5	
	Does my answer make sense?



Steps for Solving Word Problems

_	
Q_1 .	What is the problem about?
Q_2 .	What do I need to find?
-42	
0	What do I know?
Q 3.	what do I know:
Q4.	What can I try?
Q_5 .	Does my answer make sense?