

## 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
Planning Guide ..... p. 3
Sessions 1 through 8: Lesson Resources ..... p. 4-43
Independent Practice Game: "Whose number is Greater?" ..... p. 44-47
Classroom Poster: Questions for Solving Word Problems ..... p. 48
Tier 1 Support Classroom Poster: Steps for Solving Word Problems ..... p. 49

| Recommended Actions |  |
| :---: | :---: |
| Beginning (5 min.) | > Review the learning target with the whole group <br> > Ask each student to set a goal for the day based on their previous Quick Check Score <br> $>$ Have each student use a highlighter to plot their goal for the day |
| Middle <br> (15 min.) | Model solving a word problem - "I do" (Sessions 1, 3 and 6 only) <br> Guided Practice - "We do" <br> Sessions 1 and 2: Compare numbers to 1,000 using base-ten blocks <br> Sessions 3, 4 and 5: Compare numbers to 1,000 using base-ten drawings <br> Sessions 6, 7 and 8: Compare numbers to 1,000 using base-ten understanding |
| $\begin{gathered} \text { End } \\ (10 \mathrm{~min} .) \end{gathered}$ | Bring the students back together. <br> Ask students to reflect on their progress towards the learning target <br> - What did I learn today about comparing numbers? <br> - How confident do you feel about comparing numbers on my own? <br> (Thumbs up, down, or sideways) <br> Assess each student's progress using the next Quick Check form <br> Guide students to self-correct their Quick Check <br> Guide students to chart their progress in their Growth Chart <br> - If not using Delta Math lessons, record the activity in the table <br> Collect each student's Quick Check and Growth Chart |
| After Session 6 | Differentiation Options: <br> - Allow students who met the learning goal to work independently while others do the guided practice during the next session <br> - Exit students who met the learning goal for a third time <br> 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)

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

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 $3^{\text {rd }}$ grade students raised $\$ 235$ and the $4^{\text {th }}$ 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 $3^{\text {rd }}$ grade students raised $\$ 235$ and the $4^{\text {th }}$ 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 $3^{\text {rd }}$ grade students raised more than the $4^{\text {th }}$ 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 ( $1 \rightarrow$ 100)


DELTA
MUTH
Place-Value Cards (200 $\boldsymbol{\rightarrow} \mathbf{9 0 0 )}$


Name
Date $\qquad$

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. |
| :--- | :--- | :--- |
| 3. |  |  |
|  | $23417 \ldots 253$ | 4. |

You Do Together: (As a class, or in small groups)
Students take turns leading and repeat the steps to compare numbers to 99.


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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


## 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: |  |  |

Name
Date $\qquad$

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. |  | 2. |
| :--- | :--- | :--- |
| 3. |  |  |
|  | $247 \_\_274$ | $485 \_458$ |

You Do Together: (As a class, or in small groups)
Students take turns leading and repeat the steps to compare numbers to 99.

| 5. | 6. | $506 \_560$ |  |
| :--- | :--- | :--- | :--- |
| 7. | $472 \_297$ | 8. | $239 \_293$ |
| 9. | $416 \_461$ | 10. |  |
|  |  |  |  |

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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)
 Session 3: Modeling (I Do)

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?

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

Name $\qquad$

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.

317
341
2.

475 _ 459
3.
$235-253$

Name
Date

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.

372 _ 257
5.

$$
403 \ldots 430
$$

6. 

428 _ 289

M $\triangle$ TH $\qquad$

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.


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)

Name $\qquad$ Date $\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


Name $\qquad$

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.

$$
419 \text { _ } 431
$$

2. 

$$
385 \text { _ } 368
$$

3. 

247 _ 274

Name
Date

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

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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


Name $\qquad$

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.
$136-163$

Name
Date

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

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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. ( $>,<,=$ )
(Work time: 3 minutes)
 Session 6: Modeling (I Do)

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?

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.

## Caden

104

$$
100+4
$$

$$
100+40
$$

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.

M $\triangle$ TH
Name
Date $\qquad$

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.


M $\triangle$ TH
Name $\qquad$
$\qquad$

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 .


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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


MATH
Name
Date $\qquad$

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.


M $\triangle$ TH
Name $\qquad$
$\qquad$

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.


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)
$\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


M $\triangle$ TH
Name $\qquad$

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. |  | 2. |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  | $481 \_419$ |  |
| 3. | $673 \ldots 629$ | 4. | $237 \ldots 402$ |
|  |  |  |  |

M $\triangle$ TH
Name $\qquad$
$\qquad$

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.


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 $\qquad$ Date $\qquad$

Learning Target: I will compare numbers to 1,000.
Directions: Fill in the blank. (>, <, =)
(Work time: 3 minutes)


## 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_ $\qquad$ is greater than $\qquad$ because $\qquad$ ."
> The player with the lesser number responds by saying,
"My number $\qquad$ is less than $\qquad$ , because $\qquad$ ."
> 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
$M \Delta T H$
Names $\qquad$

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 $\qquad$ is greater than $\qquad$ because $\qquad$ ."
> The player with the lesser number responds by saying,
"My number $\qquad$ is less than $\qquad$ because $\qquad$ ."
> The player with the greater number takes both cards.
> Repeat until all cards have been played.

| Round 1 |  |  | Round 2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Player 1 | Player 2 |  | Player 1 | Player 2 |
| Round 3 |  |  | Round 4 |  |  |
|  | Player 1 | Player 2 |  | Player 1 | Player 2 |
| Round 5 |  |  | Round 6 |  |  |
|  | Player 1 | Player 2 |  | Player 1 | Player 2 |
| Round 7 |  |  | Round 8 |  |  |
|  | Player 1 | Player 2 |  | Player 1 | Player 2 |
| Round 9 |  |  | Round 10 |  |  |
|  | Player 1 | Player 2 |  | Player 1 | Player 2 |

3-Digit Number Cards (Set A)

| $257$ | $275$ | $339$ | $393$ |
| :---: | :---: | :---: | :---: |
| $457$ | $475$ | $649$ | $694$ |
| 549 | $594$ | $<$ <br> Less Than | $>$ <br> Greater Than |

3-Digit Number Cards (Set B)

| 239 | 293 | 357 | 375 |
| :---: | :---: | :---: | :---: |
| 486 | 468 | 586 | 568 |
| 686 | 668 | Leess Than | $>$ |



| $Q_{1}$ | What is the problem about? |
| :--- | :---: |
| $Q_{2}$ | What do I need to find? |
| $Q_{3}$ | What do I know? |
| $Q_{4}$ |  |
| $Q_{5}$ | What can I try? |
|  |  |

Steps for Solving Word Problems

Q1. What is the problem about?
Q. What do I need to find?

Q3. What do I know?

Q4. What can I try?
$Q_{5 .}$ Does my answer make sense?

