

Reasoning and Problem Solving

Step 9: Comparing Numbers

National Curriculum Objectives:

Mathematics Year 3: (3N2a) [Compare and order numbers up to 1000](#)

Mathematics Year 3: (3N2a) [Read and write numbers up to 1000 in numerals and in words](#)

Mathematics Year 3: (3N3) [Recognise the place value of each digit in a three-digit number \(hundreds, tens, ones\)](#)

Mathematics Year 3: (3N4) [Identify, represent and estimate numbers using different representations](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Find numbers up to 1,000, that could complete a statement using inequality symbols. Numerals and conventional partitioning only.

Expected Find numbers up to 1,000, that could complete a statement using inequality symbols. Numerals and words using conventional partitioning.

Greater Depth Find numbers up to 1,000, that could complete a statement using inequality symbols. Numerals and words with some instances of multiple examples of unconventional partitioning within a number. For example, 18 tens and 12 ones.

Questions 2, 5 and 8 (Reasoning)

Developing Compare two numbers up to 1,000 explaining the greatest using comparative language. Numerals and conventional partitioning only.

Expected Compare two numbers up to 1,000 explaining the greatest using comparative language. Numerals and words using conventional partitioning.

Greater Depth Compare two numbers up to 1,000 explaining the greatest using comparative language. Numerals and words with some instances of multiple examples of unconventional partitioning within a number. For example, 18 tens and 12 ones.

Questions 3, 6 and 9 (Problem Solving)

Developing Compare two numbers up to 1,000 using inequality symbols and follow clues to find a code. Numerals and conventional partitioning only.

Expected Compare two numbers up to 1,000 using inequality symbols and follow clues to find the code. Numerals and words using conventional partitioning and some instances of unconventional partitioning within a number. For example, 13 tens.

Greater Depth Compare two numbers up to 1,000 using inequality symbols and follow clues to find a code. Numerals and words with some instances of multiple examples of unconventional partitioning within a number. For example, 18 tens and 12 ones.

More [Year 2 and Year 3 Place Value](#) resources

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Comparing Numbers

Comparing Numbers

1a. Look at the statement below.

$$789 > ? > 689$$

Which numbers could fill the gap?



3 PS

1b. Look at the statement below.

$$517 > ? > 389$$

Which numbers could fill the gap?



3 PS

2a. Which number is the greatest?

449

494

Prove it.



3 R

2b. Which number is the greatest?

623

523

Prove it.



3 R

3a. Compare the numbers adding < or > and then follow the clues to crack the code.

284



786

A = digit that is in both numbers
B = ones digit of the lowest number
C = digit with the lowest value
D = the only odd digit

A

B

C

D



3 PS

3b. Compare the numbers adding < or > and then follow the clues to crack the code.

673



413

A = digit with the lowest value
B = tens digit of the greatest number
C = even digit in the lowest number
D = digit that is in both numbers

A

B

C

D



3 PS

Comparing Numbers

Comparing Numbers

4a. Look at the statement below.

$$\begin{array}{c} \text{four} \\ \text{hundred} \\ \text{and eighty-} \\ \text{seven} \end{array} > \boxed{?} > \begin{array}{c} 300 + \\ 40 \\ + 2 \end{array}$$

Which numbers could fill the gap?



3 PS

4b. Look at the statement below.

$$\begin{array}{c} 200 + \\ 50 + 7 \end{array} > \boxed{?} > \begin{array}{c} \text{one} \\ \text{hundred} \\ \text{and forty-} \\ \text{nine} \end{array}$$

Which numbers could fill the gap?



3 PS

5a. Which number is the greatest?

$$300 + 70 + 4$$

three hundred
and
forty-seven

Prove it.



3 R

5b. Which number is the greatest?

seven hundred
and thirty-two

$$700 + 20 + 3$$

Prove it.



3 R

6a. Compare the numbers adding < or > and then follow the clues to crack the code.

$$\begin{array}{c} 4 \text{ hundreds and} \\ 53 \text{ ones} \end{array} \boxed{} \begin{array}{c} \text{five hundred and} \\ \text{thirteen} \end{array}$$

A = hundreds digit of the lowest number
B = ones digit of the lowest number
C = tens digit of the greatest number
D = the only even digit

A B C D



3 PS

6b. Compare the numbers adding < or > and then follow the clues to crack the code.

$$\begin{array}{c} \text{five hundred and} \\ \text{ninety-two} \end{array} \boxed{} \begin{array}{c} 6 \text{ hundreds and} \\ 21 \text{ ones} \end{array}$$

A = tens digit of the greatest number
B = ones digit of the lowest number
C = hundreds digit of the lowest number
D = the lowest odd digit

A B C D

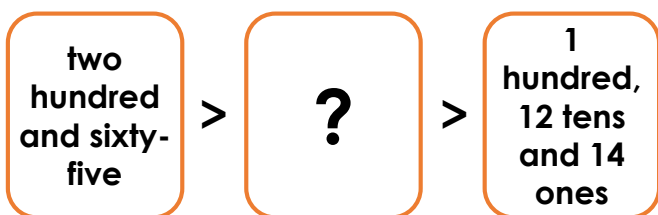


3 PS

Comparing Numbers

Comparing Numbers

7a. Look at the statement below.

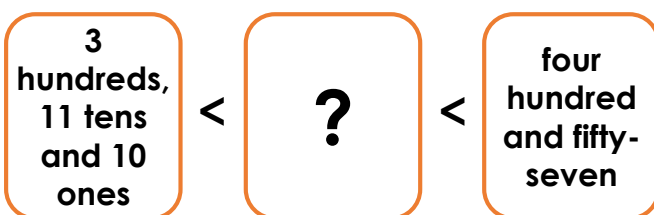


Which numbers could fill the gap?



3 PS

7b. Look at the statement below.



Which numbers could fill the gap?



3 PS

8a. Which number is the greatest?

five hundred
and eighteen

5 hundreds, 10
tens and 18
ones

Prove it.



3 R

8b. Which number is the greatest?

six hundreds, 12
tens and 38
ones

six hundred and
twenty-eight

Prove it.



3 R

9a. Compare the numbers adding < or > and then follow the clues to crack the code.



A = tens digit of the lowest number
B = ones digit of the greatest number
C = hundreds digit of the lowest number
D = the only odd digit

A

B

C

D



3 PS

9b. Compare the numbers adding < or > and then follow the clues to crack the code.



A = lowest odd digit
B = hundreds digit of the lowest number
C = digit with the greatest value
D = the only even digit

A

B

C

D



3 PS

Reasoning and Problem Solving Comparing Numbers

Developing

- 1a. Any number between and including 788 and 690.
- 2a. 494 is the greatest. Both numbers have an equal value in the hundreds column but 494 has a greater value in the tens column.
- 3a. $<$; Code is 8 4 2 7

Expected

- 4a. Any number between and including 343 and 486.
- 5a. 374 is the greatest. Both numbers have an equal value in the hundreds column but 374 has a greater value in the tens column.
- 6a. $<$; Code is 4 3 1 4

Greater Depth

- 7a. Any number between and including 235 and 264.
- 8a. 528 is the greatest. Both numbers have an equal value in the ones and the tens column but 618 has a greater value in the hundreds column.
- 9a. $>$; Code is 0 6 4 9

Reasoning and Problem Solving Comparing Numbers

Developing

- 1b. Any number between and including 390 and 516.
- 2b. 623 is the greatest. Both numbers have an equal value in the tens and ones column but 623 has a greater value in the hundreds column.
- 3b. $>$; Code is 1 7 4 3

Expected

- 4b. Any number between and including 150 and 256.
- 5b. 640 is the greatest. Both numbers have an equal value in the hundreds column but 640 has a greater value in the tens column.
- 6b. $<$; Code is 2 2 5 1

Greater Depth

- 7b. Any number between and including 421 and 456.
- 8b. 758 is the greatest. Both numbers have an equal value in the ones column but 758 has a greater value of tens and hundreds.
- 9b. $<$; Code is 3 4 5 4