

TAKING ON THE B.E.S.T.

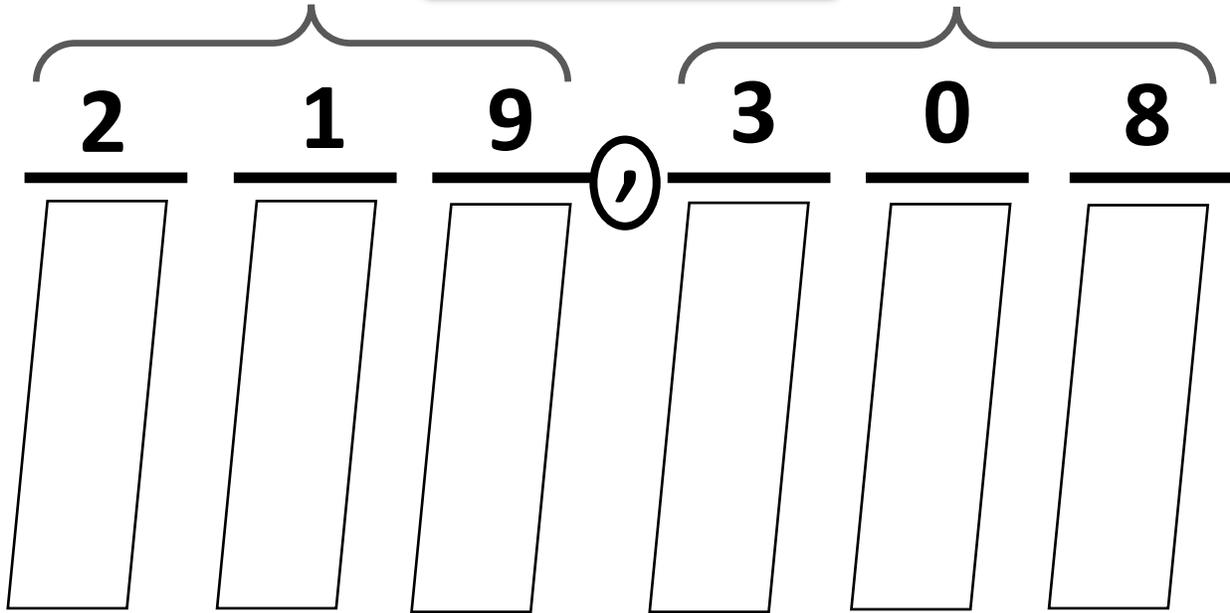
MA.4.NSO.1.1



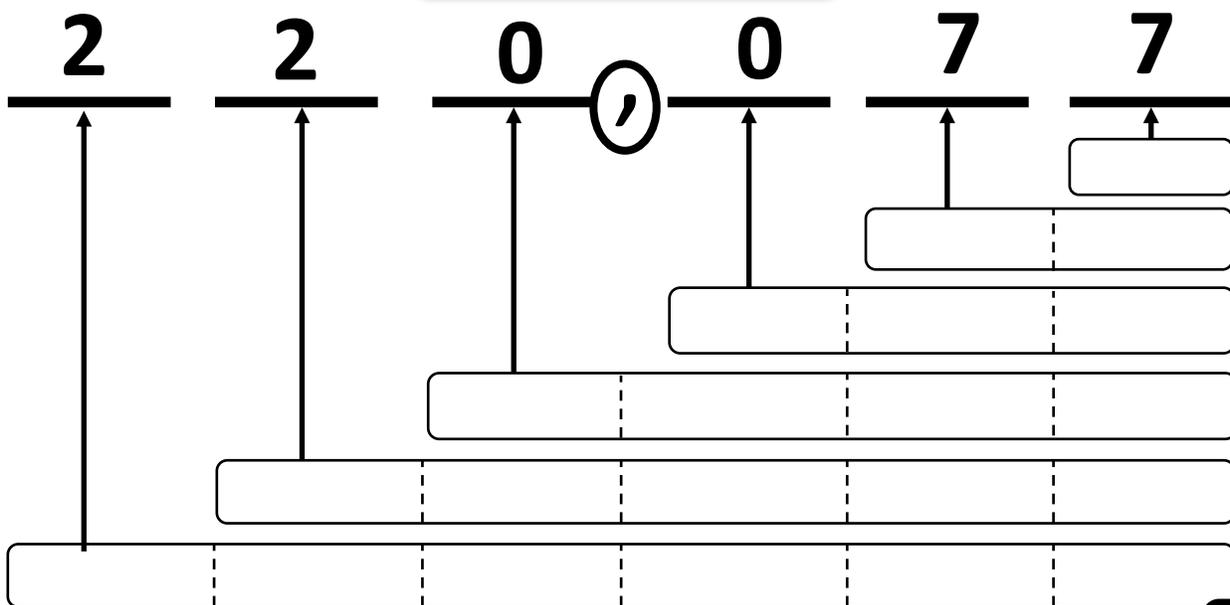
Video Lesson

Foundational Skills

PLACE VALUE



VALUE OF DIGITS



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Video
Lesson

10 Times Greater

1 Write the number 47,513 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 5 in a place that is ten times greater than digit 5 in 47,513.

Write a number that has the digit 1 in a place that is ten times greater than digit 1 in 47,513.

Write a number that has the digit 7 in a place that is ten times greater than digit 7 in 47,513.

2 Write the number 98,234 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 8 in a place that is ten times greater than digit 8 in 98,234.

Write a number that has the digit 4 in a place that is ten times greater than digit 4 in 98,234.

Write a number that has the digit 2 in a place that is ten times greater than digit 2 in 98,234.

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Extra
Practice #1

10 Times Greater

1 Write the number 261,257 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 5 in a place that is ten times greater than digit 5 in 261,257.

Write a number that has the digit 6 in a place that is ten times greater than digit 1 in 261,257.

Write a number that has the digit 7 in a place that is ten times greater than digit 7 in 261,257.

2 Write the number 481,079 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 9 in a place that is ten times greater than digit 9 in 481,079.

Write a number that has the digit 4 in a place that is ten times greater than digit 4 in 481,079.

Write a number that has the digit 1 in a place that is ten times greater than digit 1 in 481,079.

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Video
Lesson

10 Times Less

1 Write the number 100,539 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 5 in a place that is ten times less than or $\frac{1}{10}$ of digit 5 in 100,539.

Write a number that has the digit 1 in a place that is ten times less than or $\frac{1}{10}$ of digit 1 in 100,539.

Write a number that has the digit 3 in a place that is ten times less than or $\frac{1}{10}$ of digit 3 in 100,539.

2 Write the number 657,809 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 8 in a place that is $\frac{1}{10}$ of digit 8 in 657,809.

Write a number that has the digit 6 in a place that is ten times less than the digit 6 in 657,809.

Write a number that has the digit 7 in a place that is $\frac{1}{10}$ of digit 7 in 657,809.

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Extra
Practice #2

10 Times Less

1 Write the number 736,812 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 1 in a place that is ten times less than the digit 1 in 736,812.

Write a number that has the digit 7 in a place that is $\frac{1}{10}$ of digit 7 in 736,812.

Write a number that has the digit 3 in a place that is $\frac{1}{10}$ of digit 3 in 736,812.

2 Write the number 254,389 in the place value chart below.

| Hundred thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|-------------------|---------------|-----------|----------|------|------|
| | | | | | |

Write a number that has the digit 2 in a place that is ten times less than the digit 2 in 254,389.

Write a number that has the digit 8 in a place that is $\frac{1}{10}$ of digit 8 in 254,389.

Write a number that has the digit 4 in a place that is ten times less than the digit 4 in 254,389.

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Extra
Practice #3

10 Times Greater or Less

- 1 Here is the number 19,203. Write a number where the digit 2 is ten times greater than the digit 2 in 19,203.
- 2 Here is the number 742,680. Write a number where the digit 4 is ten times less than the digit 4 in 742,680.
- 3 Here is the number 566,941. Write a number where the digit 9 is $\frac{1}{10}$ of the digit 9 in 566,941.
- 4 Here is the number 67,213. Write a number where the digit 2 is ten times less than the digit 2 in 67,213.
- 5 Here is the number 399,487. Write a number where the digit 8 is ten times greater than the digit 8 in 399,487.

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Extra
Practice #4

10 Times Greater or Less

1 Here is the number 743,069. Write a number where the digit 4 is ten times greater than the digit 4 in 743,069.

2 Here is the number 512,008. Write a number where the digit 1 is ten times less than the digit 1 in 512,008.

3 Here is the number 19,289. Write a number where the digit 2 is $\frac{1}{10}$ of the digit 2 in 19,289.

4 Here is the number 400,018. Write a number where the digit 4 is ten times less than the digit 4 in 400,018.

5 Here is the number 16,977. Write a number where the digit 1 is ten times greater than the digit 1 in 16,977.

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Math
Missions

10 Times Greater or Less

PART ONE

Anthony receives a step tracker for his birthday. In July, he realizes that he has logged 243,817 steps.

The next month, he sets a goal to walk further than his steps in July. He also wants to make sure that the value of the 8 in his August goal is ten times greater than the value of the 8 in his July total.

What could be a possible goal for Anthony to reach in August? Explain your thinking.

PART TWO

Anthony's sister, Jasmine, says a possible goal for Anthony to reach in August could be 243,781. Do you agree with Jasmine's number? Why or why not?



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Math Misconception Mystery (PAGE 1)

BEFORE THE VIDEO: Solve the problem on your own.

Figure out what the mystery number is using the clues below.

- This is a 5-digit number.
- The value of the 4 is 10 times greater than the value of the 4 in 14.
- The value of the 8 is 10 times less than the value of the 8 in 1,287.
- The value of the 1 is 10 times greater than the value of the 1 in 641,052.
- The value of the 3 is $\frac{1}{10}$ of the value of the 3 in 34,201.
- This missing digit has no value.

What is the mystery number?

DURING THE VIDEO: Pause after each “character” solves the problem and jot down quick notes to help you remember what they did correctly or incorrectly. .

| | |
|--------------------|--------------------|
| Character #1 _____ | Character #2 _____ |
| Character #3 _____ | Character #4 _____ |



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Math Misconception Mystery (PAGE 2)

AFTER THE VIDEO: Discuss and analyze their answers.

The most reasonable answer belongs to Character # _____ because



(Justify how this character's work makes sense.)

Let's help the others:

| | Character #___: | Character #___: | Character #___: |
|--|-----------------|-----------------|-----------------|
| What did this character do that was correct? | | | |
| Identify their error | | | |
| What do they need to know to understand for next time? | | | |