Math Virtual Learning

4rd Grade Number Sense

April 6, 2020

4th Grade Math
Lesson: April 6th, 2020

Learning Target:
I can identify numbers up to 1,000,000.
I can identify a number 10, 100, 1,000 times bigger or smaller than a given number.

Let's Get Started:
- Students will need to know the value of a number up to 1,000,000.
  https://www.youtube.com/watch?v=qbk89zAlUWk
- Students will need to know how their basic multiplication facts.

Warmup:
- Practice multiplication flash cards.
- Practice identifying the value of digits in numbers up to 1,000,000.

1,000 times less/more example:
To make a number 1,000 times more or less than it already is, you are taking each digit and making it 1,000 more or less.

More: 4,962 = (4,000 x 1,000) + (900 x 1,000) + (60 x 1,000) + (2 x 1,000)
            4,000,000   900,000   60,000   2,000
                            = 4,962,000

Less: 4,962,000 = (4,000,000÷1,000) + (900,000÷1,000) + (60,000÷1,000) + (2,000÷
1,000)   4,000   900   60
   2   =4,962
These examples can be followed when making a number 10, 100 or 1,000 times bigger.

Practice # 1:

Plug in the value of each digit in the problem below. On a piece of scratch paper, write the correct value of the red text. Replace the question mark with the new number that has been created.

Check on the next slide to see if you are correct.

10 x 36,520 = (10 x *value of the 3*) + (10 x *value of the 6*) + (10 x *value of the 5*) + (10 x *value of the 2*) + (10 x *value of the 0*)

10 x 36,520 = ?

Practice # 1 Answer Key:

10 x 36,520 = (10 x *30,000*) + (10 x *6,000*) + (10 x *500*) + (10 x *20*) + (10 x *0*)
       = 300,000 + 60,000 + 5,000 + 200 + 00 + 0 = 365,200

10 x 36,520 = 365,200

Practice # 2:

Plug in the value of each digit in the problem below. On a piece of scratch paper, write the correct value of the red text. Replace the question mark with the new number that has been created.

Check on the next slide to see if you are correct.

100 x 4,196 = (100 x *value of the 4*) + (100 x *value of the 1*) + (100 x *value of the 9*) + (100 x *value of the 6*)

100 x 4,196 = ?

Practice # 2 Answer Key:

$100 \times 4{,}196 = (100 \times \textit{value of the 4}) + (100 \times \textit{value of the 1}) + (100 \times \textit{value of the 9}) + (100 \times \textit{value of the 6})$

$100 \times 4{,}196 = 400{,}000 + 10{,}000 + 9{,}000 + 600 = 419{,}600$

Practice # 3:

Plug in the value of each digit in the problem below. On a piece of scratch paper, write the correct value of the red text. Replace the question mark with the new number that has been created.

Check on the next slide to see if you are correct.

1,000 x 8,471 = (1,000 x *value of the 8*) + (1,000 x *value of the 4*) + (1,000 x *value of the 7*) + (1,000 x *value of the 1*)

1,000 x 8,471 = ?

Practice # 3 Answer Key:

1,000 x 8,471 = (1,000 x *value of the 8*) + (1,000 x *value of the 4*) + (1,000 x *value of the 7*) + (1,000 x *value of the 1*)

1,000 x 8,471 = 8,000,000 + 400,000 + 70,000 + 1,000 = 8,471,000

In this matching game, students will be identifying numbers that are 10 time, 100 times, 1,000 times bigger and smaller than a given number.

Directions:

1. Click the link to the right and it will take you to a google slide activity. Click the blue box that says, "Make a Copy".
2. Students will need to find the corresponding gray box that matches one of the tiles on the game board. Once they find it, hover over the grey piece. When the 4 sided arrow is shown, click and drag to cover. Once all tiles are covered they are done.
3. If you want to time your student to make it more fun and harder, that is an extension

Value Game

ABCya Value Game

Multiplication Warm Up

Self Check:
   Go tell someone in your home your answers.

1. Was this lesson?
   - ❏ easy,
   - ❏ just right
   - ❏ hard

2. Imagine your parent told you that you need to read 5 pages of a book each day. How many pages would you have read after 10 days? 100 days?