



Classwork 5-4-2020

We are almost finished with the place value chart – but just a couple more things. Today we will learn to expand numbers.



Lesson Plans: 5/4/2020

Where To Find Your Work: <https://lynncronin.weebly.com>

Learning Objectives: We are almost finished with the place value chart – but just a couple more things. Today we will learn to expand numbers.

Learning Activities: PowerPoint, Quizlet, First-In-Math

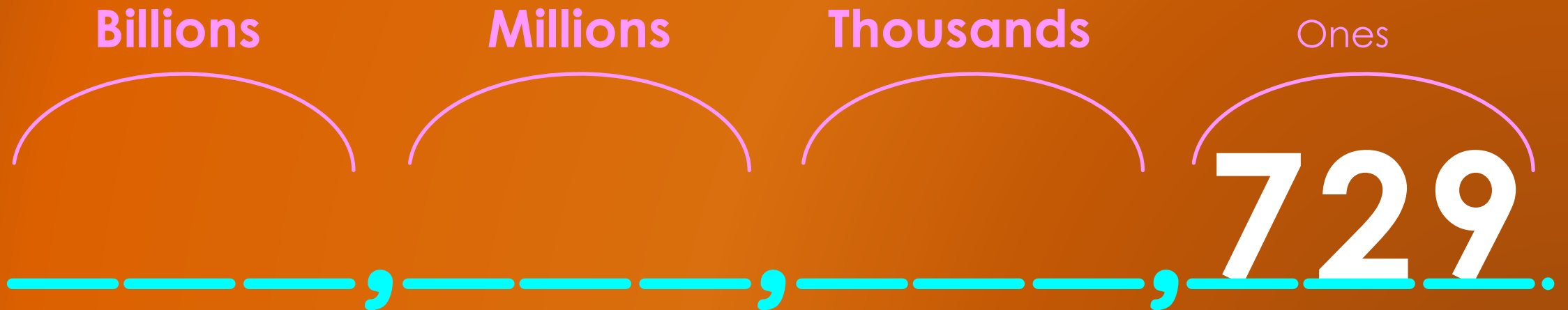
How I will see/check your work: please email or text me your answers and tell me how you are doing

How We Communicate: lcronin@wtps.org / 856-857-7707

Grade 4 - MA.4.NBT.A.1, MA.4.NBT.A.2, MA.4.NBT.A.3, MA.4.NBT.B, MA.4.NBT.B.4, MA.4.NBT.B.5

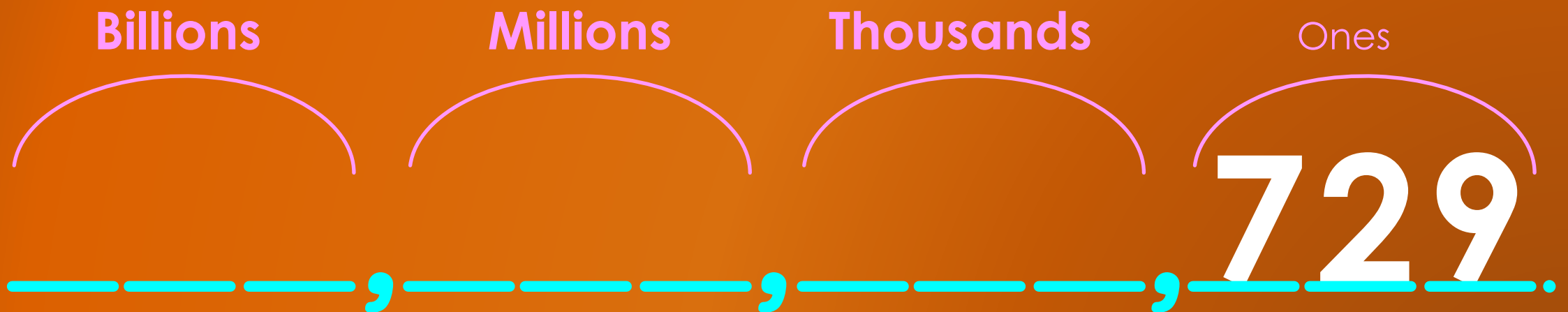
Each digit on the place value chart has a value of its own.

For example the digit 2 in this number is equal to 20.

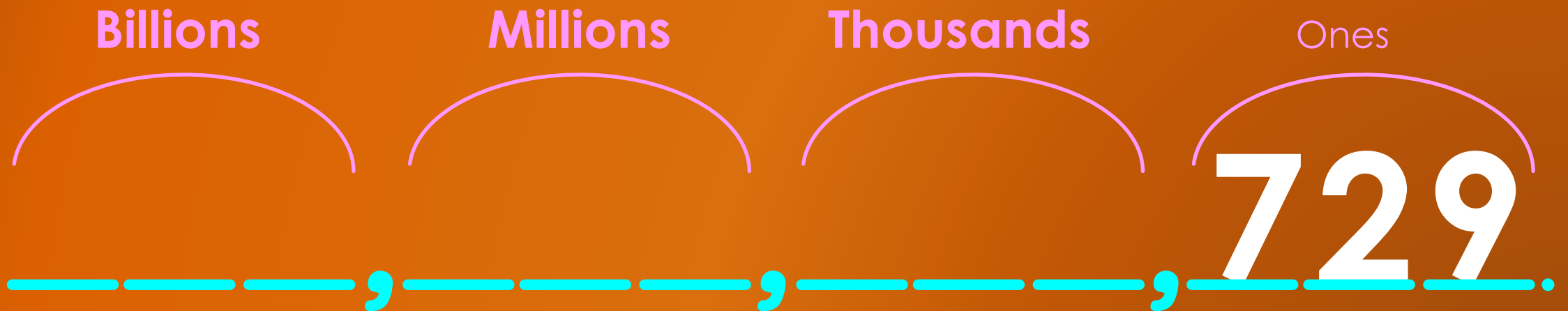


Because of that we can decompose a number into its parts.

The word decompose means "to break apart".



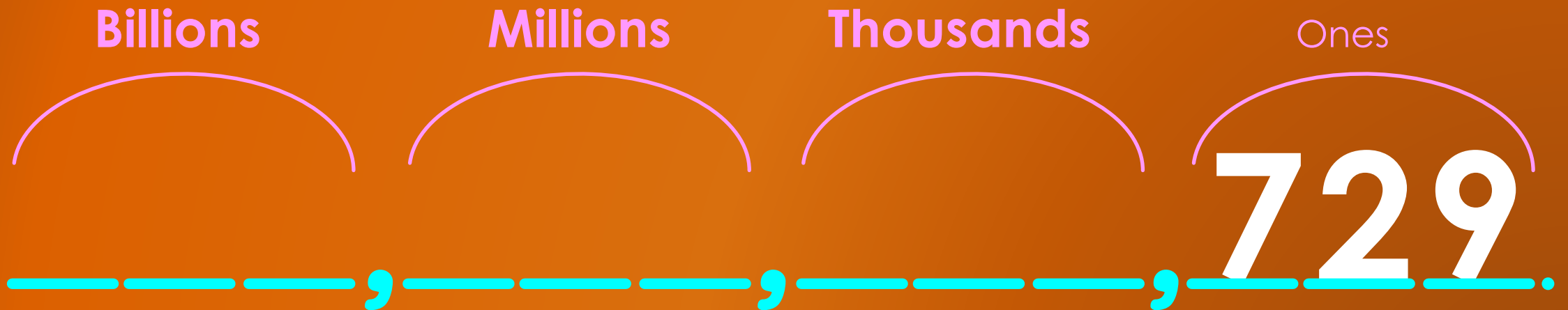
When you decompose a number it is called writing the number in **expanded form**.



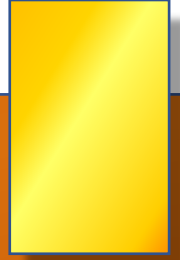
This number is seven hundred twenty-nine.

In expanded form it is

$$700 + 20 + 9$$



Try it! Write this number in expanded form.

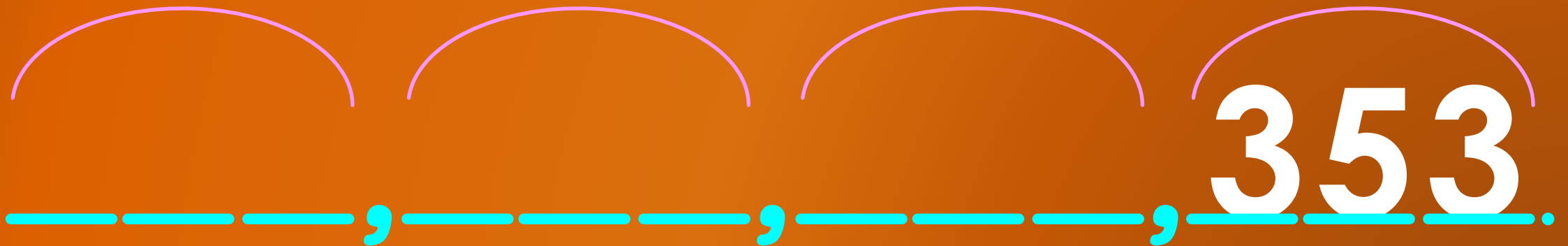


Billions

Millions

Thousands

Ones



Do the math then check the next page for the answer.

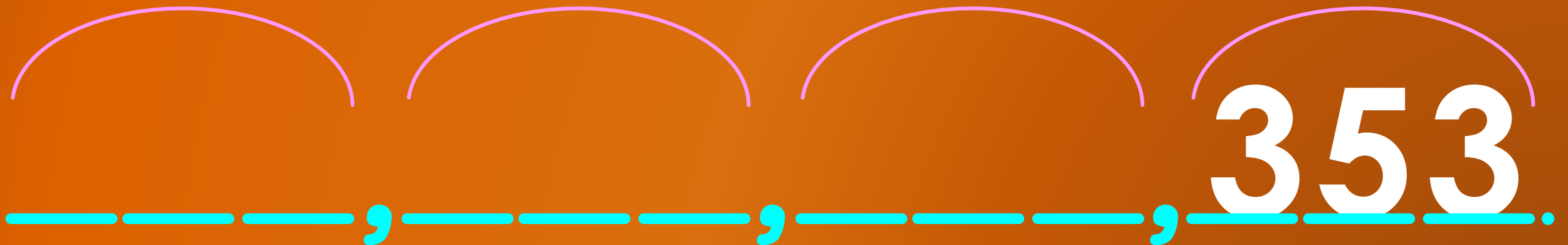

$$300 + 50 + 3$$

Billions

Millions

Thousands

Ones



Do the math then check the next page for the answer.

Write this number in expanded form.

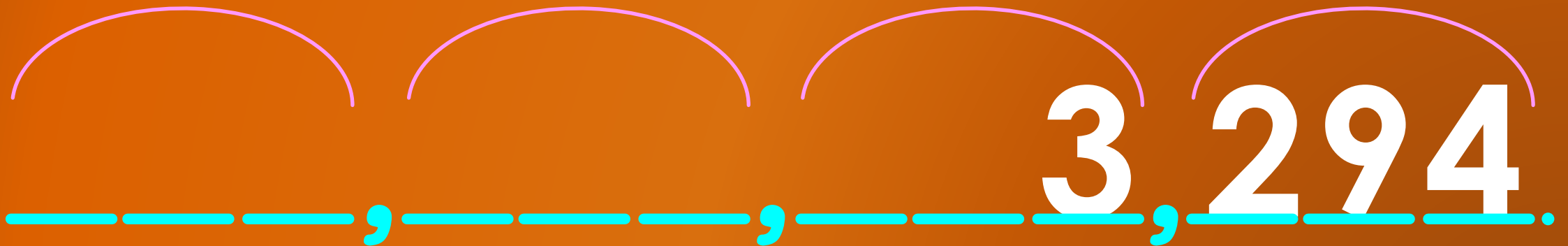


Billions


Millions

Thousands

Ones



Do the math then check the next page for the answer.


$$3,000 + 200 + 90 + 4$$

Billions

Millions

Thousands

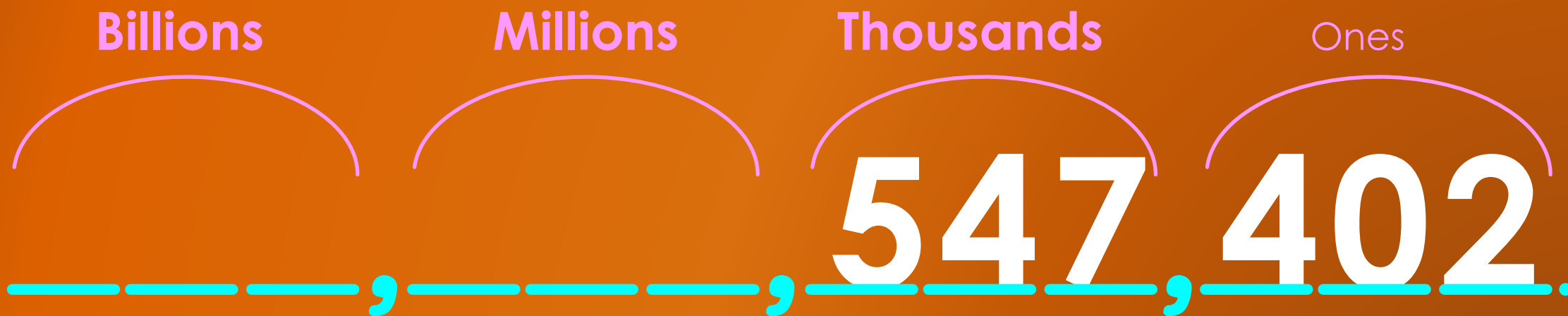
Ones

_____ , _____ , _____ **3** , **294** .

Do the math then check the next page for the answer.



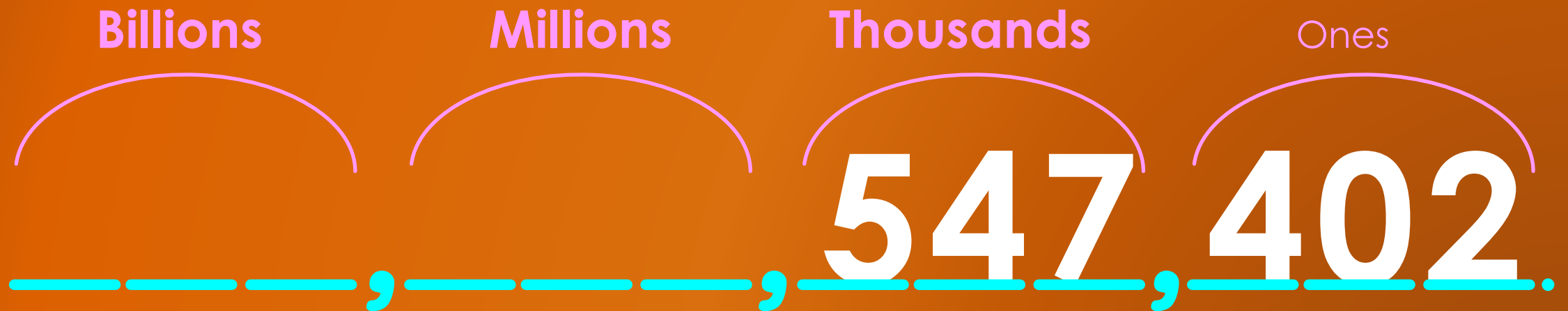
I knew you could do this!
Write this number in expanded form.



Do the math then check the next page for the answer.


$$500,000 + 40,000 + 7000 + 400 + 2$$

Did you notice that we skipped the 10s?
That's because this number has no tens.

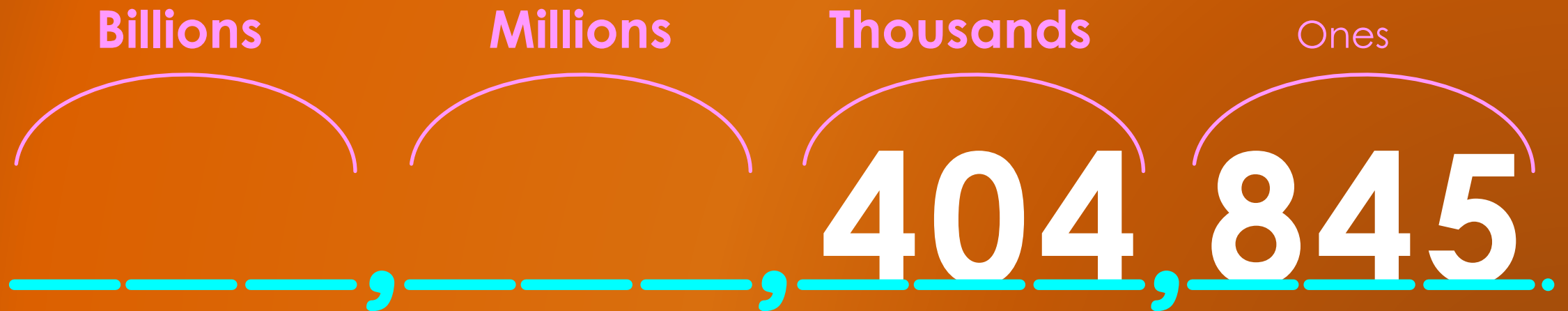


Do the math then check the next page for the answer.



Try this one!

Write this number in expanded form.



Do the math then check the next page for the answer.


$$400,000 + 4,000 + 800 + 40 + 5$$

Billions

Millions

Thousands

Ones

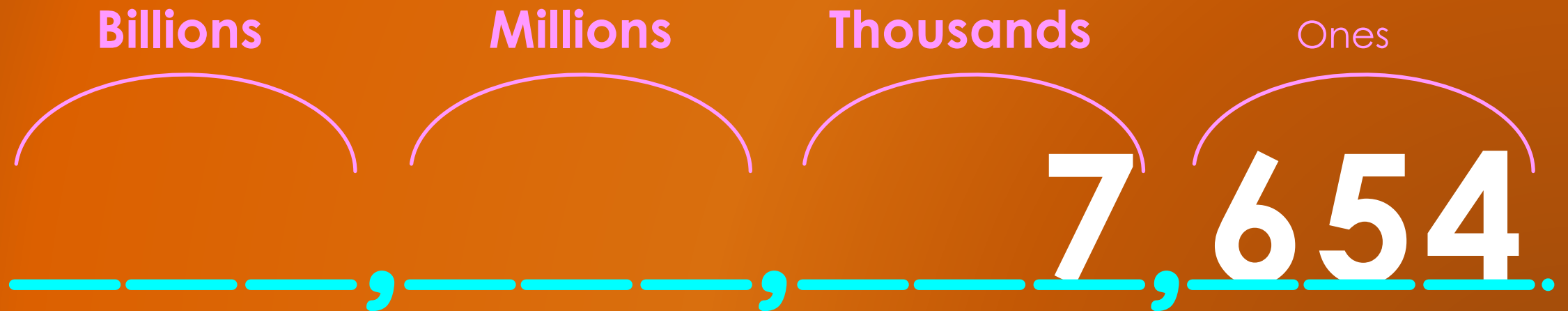
_____ , _____ , **404** , **845** .

Do the math then check the next page for the answer.



Try this one!

Write this number in expanded form.



Do the math then check the next page for the answer.

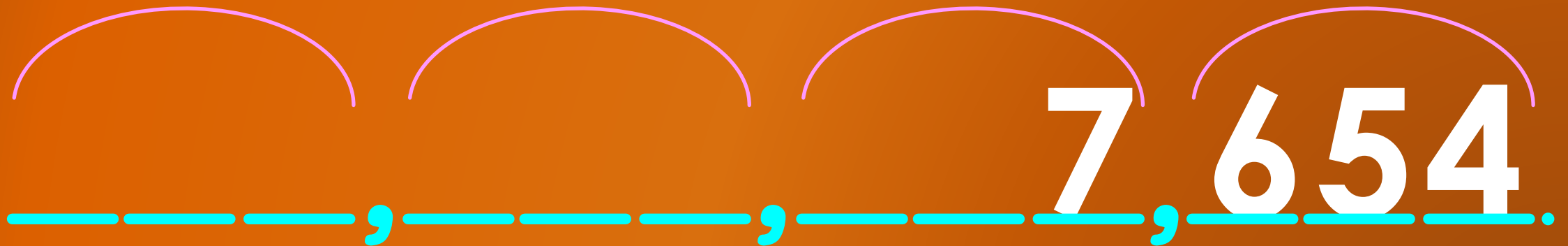

$$7,000 + 600 + 50 + 4$$

Billions

Millions

Thousands

Ones

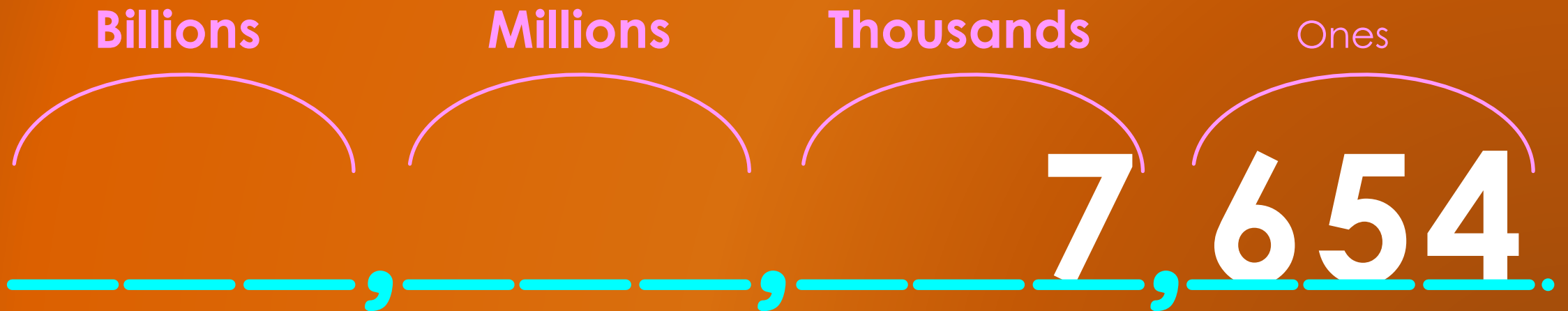


7,654

A horizontal dashed blue line is shown with three commas placed below it. Above the line, four pink arcs are drawn, each spanning one of the four groups of digits: the first arc is above the '7', the second above '6', the third above '5', and the fourth above '4'. The number '7,654' is written in large white digits, with the commas aligned with the blue line.

When you write it out in expanded form it is easy to figure out how much each digit is worth.

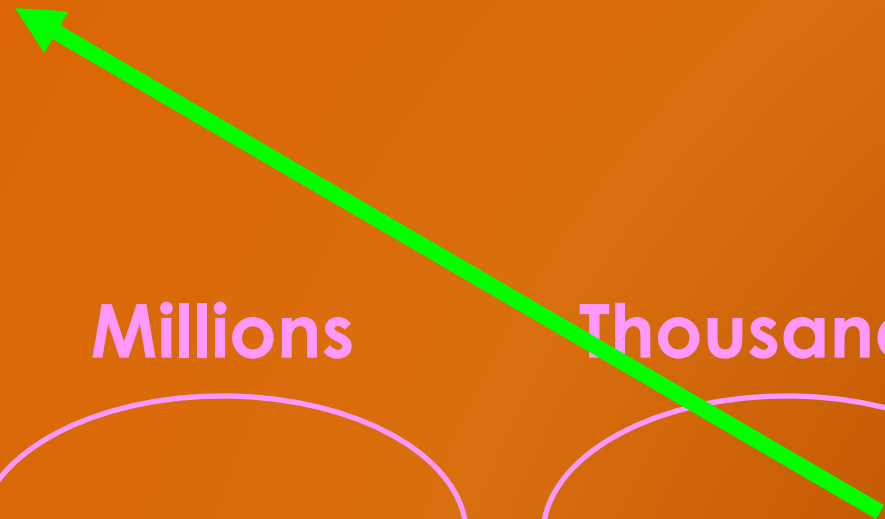
$$7,000 + 600 + 50 + 4$$





The 7 is worth 7,000

$$7,000 + 600 + 50 + 4$$



Billions

Millions

Thousands

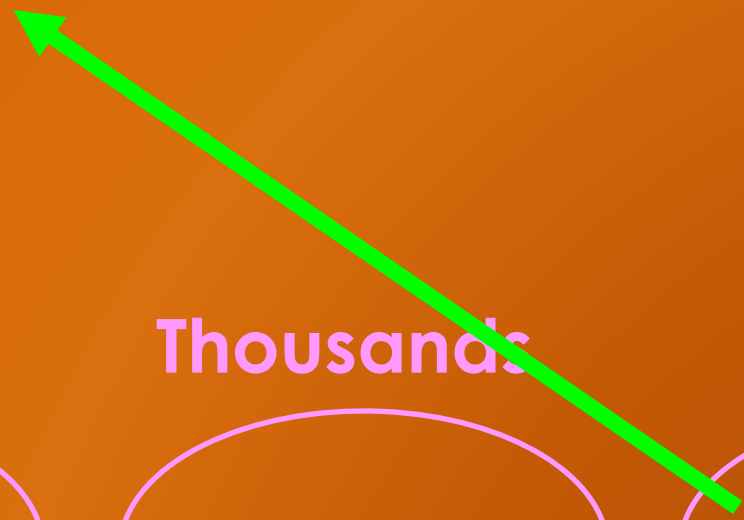
Ones





The 6 is worth 600

$$7,000 + 600 + 50 + 4$$

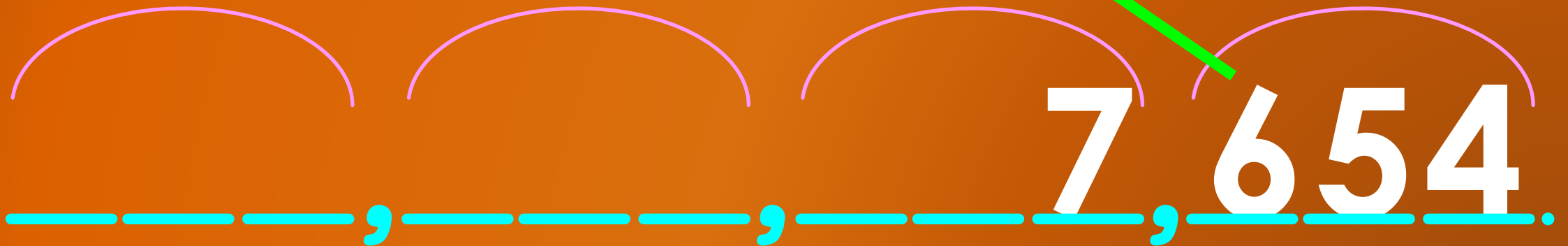


Billions

Millions

Thousands

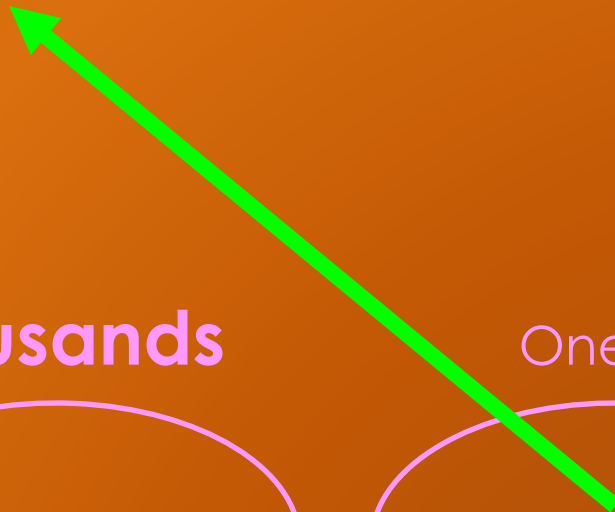
Ones





The 5 is worth 50

$$7,000 + 600 + 50 + 4$$

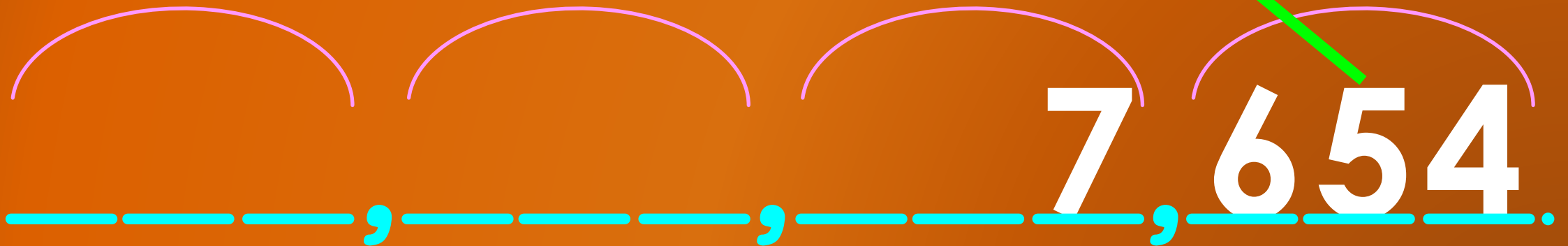


Billions

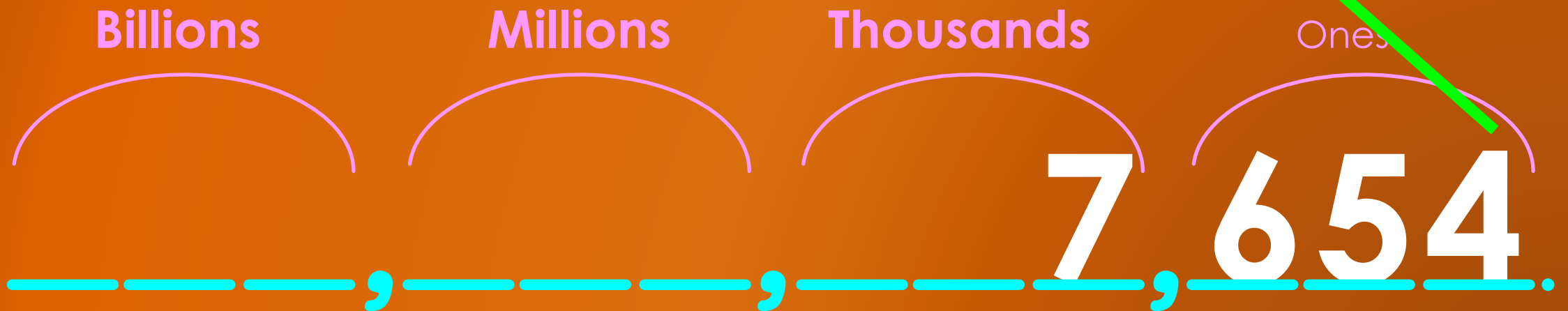
Millions

Thousands

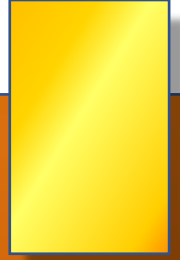
Ones



And the 4 is worth (of course) 4
 $7,000 + 600 + 50 + 4$



Write this number in expanded form.



Billions

Millions

Thousands

Ones

_____ , **645** , **389** , **539** .

Do the math then check the next page for the answer.


$$600,000,000 + 40,000,000 + 5,000,000 \\ + 300,000 + 80,000 + 9,000 + 500 + 30 + 9$$

Billions

Millions

Thousands

Ones

_____ , **645** , **389** , **539** .



That was a long one!

What is the value of the digit 9 in this number?



Do the math then check the next page for the answer.

The digit 9 is in the thousands space so it is worth nine thousand
9,000



Write this number in expanded form.



Billions

Millions

Thousands

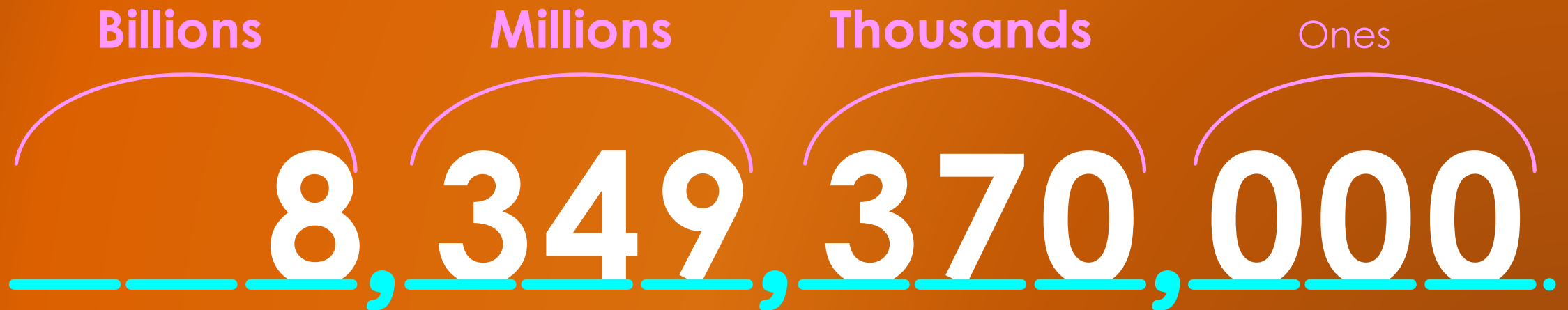
Ones

8,349,370,000

Do the math then check the next page for the answer.


$$8,000,000,000 + 300,000,000 + 40,000,000 \\ + 9,000,000 + 300,000$$

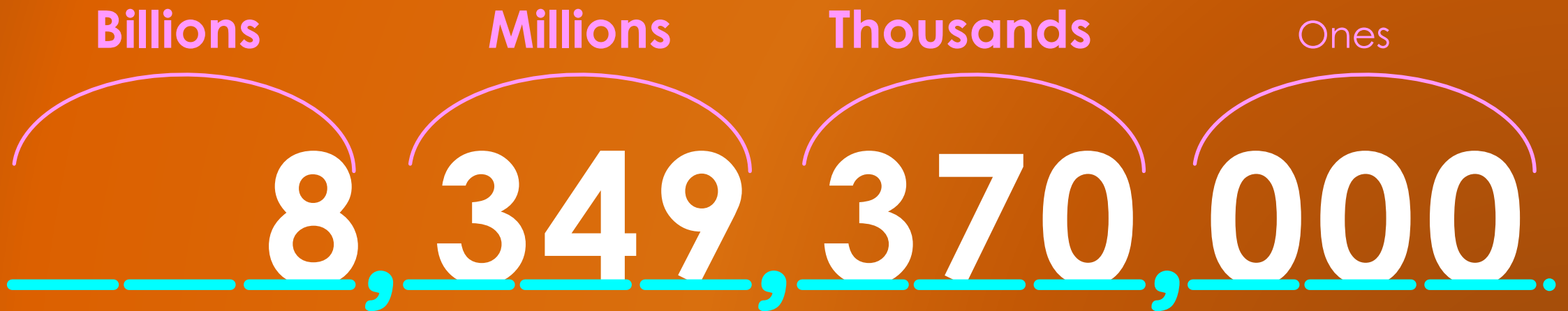
What is the value of the digit 7 in this number.



Do the math then check the next page for the answer.



The digit 7 is in the ten thousands spot so it is worth 70,000
(just like you wrote in expanded form)



Do the math then check the next page for the answer.

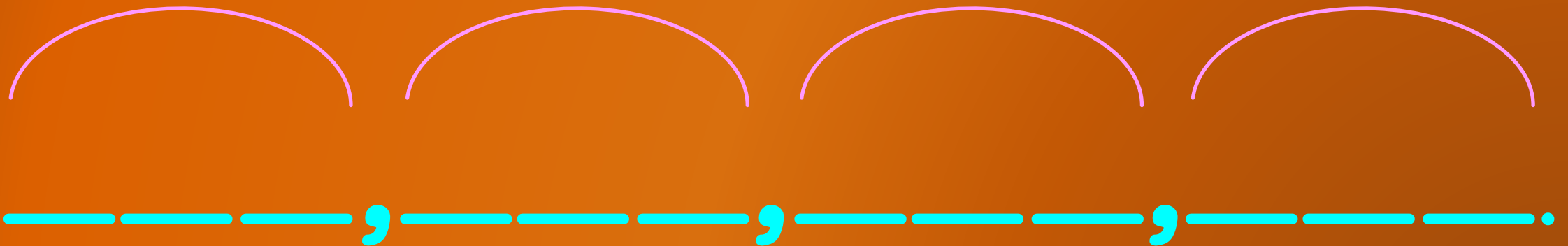
Write the answers to these 5 questions
and send me a picture!

Billions

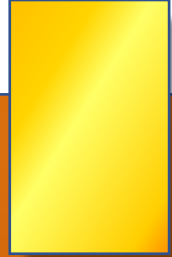
Millions

Thousands

Ones



1. Write this number in expanded form.



Billions

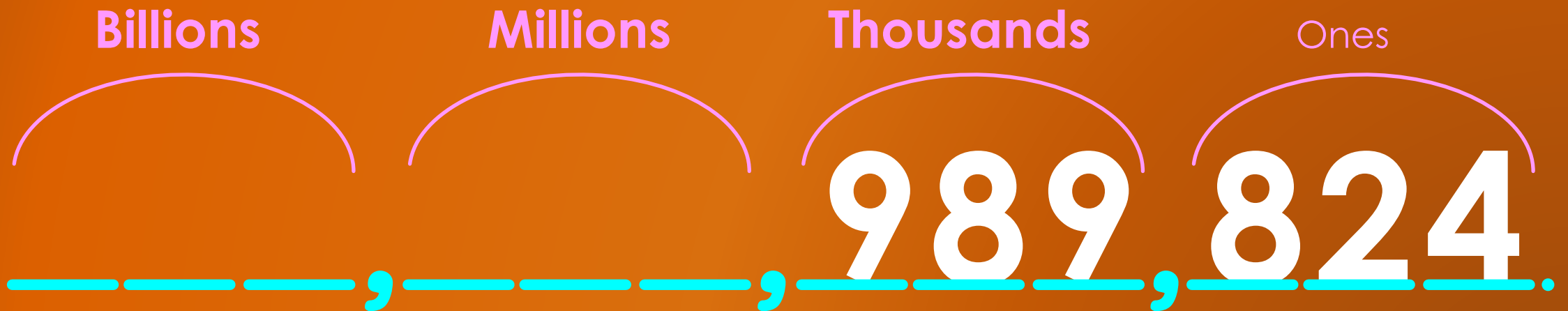
Millions

Thousands

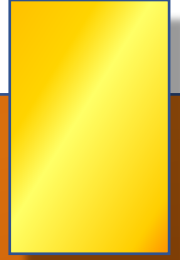
Ones

_____ , _____ , **989** , **824** .

2. What is the value of the digit 9?



3. Write this number in expanded form.



Billions

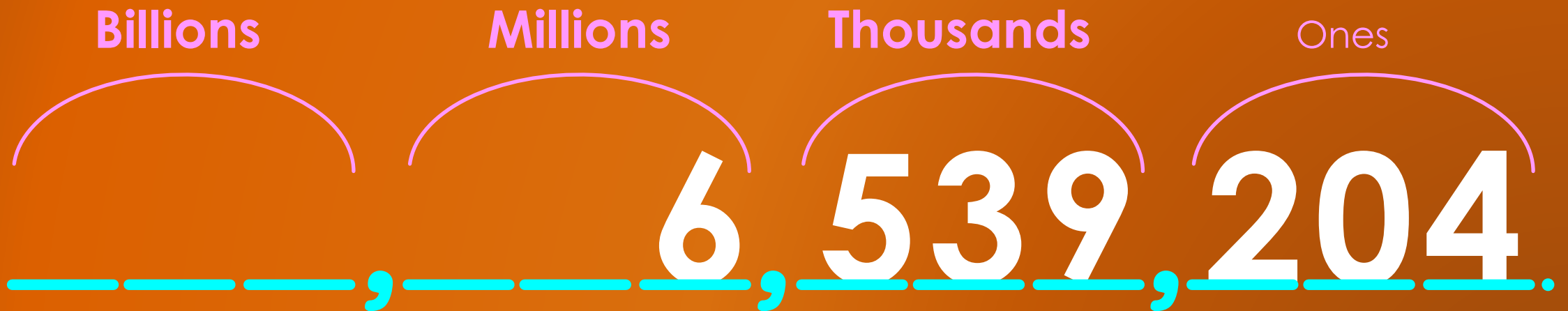
Millions

Thousands

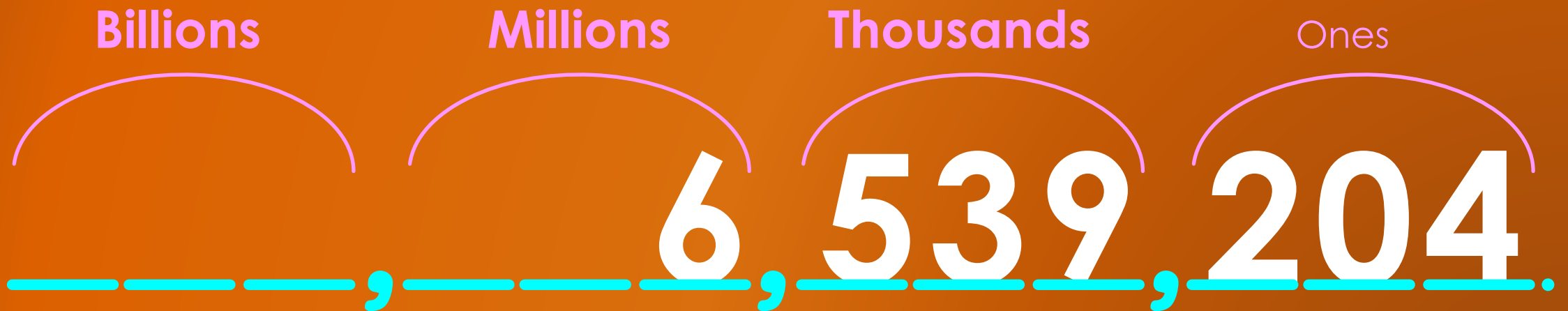
Ones

_____ , _____ , _____ , _____ .
6,539,204

4. What is the value of the digit 3?



5. What is the value of the digit 6?





**Send me a picture of those numbers
then work on Quizlet:**

https://quizlet.com/_8d84mw?x=1qqt&i=2qrr7s

Then please complete your drills.