Blobs of titanic proportion have appeared throughout the world. Help us vanquish these menaces with the power of division!

Lesson 1

Intro

Dividing a large number can be daunting, but with the right trick, it can be a breeze!  
Let’s briefly examine a useful mathematical principle to help us.

Place Value

First, let’s take a quick look at how large numbers are arranged by single digit numbers.  
These digits are placed by multiples of 10’s, since we use a base 10 number system.

Place Value Distribute

Let’s put this into practice by splitting up the large number. Drag the equation all the way to the left.

Digit Swap First

Now we can start moving the digits from one number into another.  
Press the highlighted digit to make the move.

Digit Swap Second

Now for the next digit, moving this will still make both numbers wholly divisible.

Digit Swap Complete

As you can see, we now have two divisions that are much easier to solve.  
Press each one to solve the division.

Divisions Solved

Now we just have to add both numbers to get the final answer.  
Why don’t you do the honors by pressing on the plus sign.

Addition Solved

Not bad! As you can see, splitting up a large number this way can help solve divisions easily.  
Let’s go ahead and put this into practice when we face the mega blob!

Lesson 2

Intro

This time around, we will be dividing with double-digit divisors.  
It would be too troublesome to deal with these blobs using our current technique.  
Fortunately, we have one more trick our sleeves!

Area Model

Since division is the inverse of multiplication, you can visualize the equation as the dimensions of an area.  
In this case, the quotient of the division is the width of the area.

Area Model Drag Instruct

We can use this model to partially solve the division with smaller numbers.  
Drag the area from left to right to see how this works.

Area Model Drag Complete

As you can see, each number multiplied by 12, the divisor, is subtracted from the dividend.  
Now we can easily divide the remaining dividend to get the final answer.

Area Model Reveal Answer

Adding the split values will then give you the whole answer.

End

Now why don’t we try this new technique with the next mega blob!

Level 1 Tutorial

Intro  
Look out! Two blobs have appeared.  
In order to beat the mega blob, we must merge all the blobs into one final quotient blob.   
Those numbers don’t look that scary. We can directly solve the division.  
(show drag)

Drag Instruct  
In order to merge the two blobs, simply drag one to another like so.

Op Instruct  
Now you must solve the operation by typing in the number via the numpad.  
You can also use the keyboard to enter the numbers.  
Once you feel confident with your answer, press the ENTER button on the numpad (or your keyboard).

Attack Success  
Excellent! We’ve managed to clear the blobs!

Boss Health  
This is the representation of the mega blob’s health.  
As you can see, it has been reduced.  
Once it’s empty, the mega blob will be defeated.

Split Instruct  
Now we are dealing with a much larger blob!  
Let’s split the blob up into two to make our life easier.  
Press the sparkly blob as shown to proceed.

Split Op  
Here you can see a representation of how the blob is going to be split.  
We will be splitting the blob by transferring its digits to a new blob.  
Simply click on any of the digits to transfer them.  
Once you are happy with the new split numbers, press the SPLIT button.  
Remember, both new numbers must be wholly divisible for the split to succeed!

Split Op Success  
Nicely done! The blobs have now been split into two.  
You can split the blobs further if you want, but there’s a limit!  
Once all the blobs have been merged into the final quotient blob, we will be able to attack.  
Good luck!

Level 3 Tutorial

Intro  
Watch out! These blobs are not to be trifled with!  
We’ll be employing the area model trick we just learned to defeat this blob.

Split Instruct  
Just as you have done before, press the sparkly blob to commence the split.

Split Op  
Now we are going to reduce the dividend blob’s number by multiplying the divisor blob with a number.  
The best approach is to multiply a single number by 10 several times, as long as it’s not larger than the dividend.  
We will do exactly that for this problem!

Split Op Next  
Now you must type in the correct answer for the multiplication.  
Once you press ENTER, you’ll see that number subtracted from the dividend blob.  
If the resulting value is less than zero, then try again with a smaller multiplication number!

Split Op Success  
Good! The blob’s value has been reduced, and a partial quotient blob has appeared.  
Splitting up large numbers this way will make it easier to deal with two or more-digit divisors.  
Remember this trick, and you will be able to defeat these mega blobs with ease!

Intro

Alert  
Danger!  
Multiple blobs of epic proportion detected!  
It seems these blobs came from a lab, and have somehow grown uncontrollably.  
We must find a way to shrink them back!

Operation  
According to the latest studies of blobology, the only way to shrink them is by the power of the divide operation.  
Divide and conquer, as they say!  
Go forth, our intrepid hero! Use your mathematical might to vanquish these menacing blobs!

End

CONGRATULATIONS!

You have vanquished all the mega blobs! Peace has returned to the world once more!

Thank you for playing!