[show blobs with numbers]

Multiplying a number of two or more digits can be tricky, but there’s a special trick to make it easier!

Let’s take a quick look at a math concept that we will be using for this trick.

[distributive illustration]

By using the distributive property, we can split a large number into smaller pieces.

In this example, we split the factor 12 into: 10 and 2. Making it easier to solve the product.

Pay close attention to how the distribution works!

[area illustration of split up numbers]

To help us visualize this further, consider the factors as the dimensions of a rectangle, and the product as the area.

Splitting the rectangle into smaller pieces is similar to how the distributive property works.

We then compute these smaller areas, and add them up to get the total area (the product).

[show tutorial board]

[display drag instruction and visual indicator]

Let’s give it a try. Connect these two blobs to initiate the attack!

[once two blobs are connected, show distribute phase]  
[show clicking hand point gesture on the box]

Just like in the example, this is where you split the numbers up that represents the dimensions of a rectangle.

Simply click on the boxed number to split it!

[wait for distribute to end, show next phase: evaluate]

Now we compute the area of each rectangle by using the numpad to type in the number.

Once you have a number ready, press the ENTER button.

Since we split the number up in multiples of 10’s, you only really have to multiply the non-zero numbers.

Just remember to add the proper number of zeroes at the end. In this case, just a single zero.

[wait for completion, show next phase: sums]

Finally, we add the numbers together to form the final product!

Use the numpad to compute each digit of the number,

[final product blob, connect, clear board]

Excellent! As you can see, it’s much easier to solve an equation by splitting it up into smaller pieces.

Now you are ready to banish the blobs!

[proceed to level 1] (or level intro)

Watch out! Once the health bar is empty, you will have to start over!

Look, there’s an anomaly blob!

Connecting with this blob will allow us to clear out the entire board, and give us a bonus score.

Who knows what challenge awaits, so why not give it a try?

However, you only have one shot. Do your best!

Looks like the numbers of each area are all mixed up!

Simply drag the numbers to their appropriate place, and once you are satisfied, press the PROCEED button.

Hint: If you look closely at the size of each rectangle, and its associated width, you will know where to put the numbers.

Uh oh, some of the partial products are missing!

Use the numpad to fill in the missing numbers, then press the left or right arrows to move to the next one.

Once all the missing numbers are filled, press the ENTER button to proceed.

Just remember how you split the numbers up into multiples of 10’s like before, and you should have no problem!

[show blobs with numbers]

Here we are at the final stage, with only a handful of blobs left to banish!

This time around, we will be multiplying double digit numbers.

[double digit mult. Area illustration]

Just as we split the area up horizontally, we can also split it vertically.

[board play] (also display drag)

Now why don’t you give it a try?

[distribute phase]

Just as you have done up to this point, simply click on the boxed numbers to split them.

[evaluate phase, wait for double digit mult]

This time around, you will be multiplying two double digit numbers.

Fortunately, they are both multiples of 10.

All you need to do is multiply the two non-zero digits, and put two zeroes at the end.

[after board clear]

Nice! Even with multiplying double digits, splitting them up allows you to solve them with ease!

You will certainly have no problem dealing with the remaining blobs!

Multiple space blobs have pierced through the sky!

Emergency protocol initiated.

We must banish them immediately before they fall down to Earth, and wreak havoc!

With our latest advancements in blobology, we will be deploying Attack Blobs.

These blobs must be made with the power of multiplication, and who better to do it than you!

Our intrepid hero, go forth, and use your mathematical might to banish these invading blobs for good!

You have banished all of the blobs! Earth is safe!

All the blobs have been banished for good! Earth is safe once more!

Multiple space blobs have pierced through the sky! Banish these threats with the power of mathematics before they wreak havoc!

Use the touchpad or mouse to drag and connect a blob to another. Once connected, you will go through the process of generating the product of the equation. If correct, an attack blob will appear to banish the paired blobs.

Incorrect Multiplication: Remember that in multiples of 2, simply double the number.

Incorrect Multiplication: The trick with multiples of 3 is to double the number, and then add the original number.

Incorrect Multiplication: In multiples of 4, double the number, and then double it again.

Incorrect Multiplication: If you are having trouble with multiples of 5, try multiplying the number by 10, and then half it.

Incorrect Multiplication: A good way to solve multiples of 6 is to multiply the number by 5, and then add the original number.

Incorrect Multiplication: A good way to solve multiples of 7 is to multiply the number by 5, and then add the original number twice.

Incorrect Multiplication: If you are having trouble with multiples of 8, try multiplying the number by 2 three times.

Incorrect Multiplication: One way to do multiples of 9 is to multiply the number by 10, and then subtract it by the original number.

Incorrect number of zeroes at the end! Looks like you missed a few zeroes.

Incorrect number of zeroes at the end! Looks like you put in too many zeroes.