



Doctor Doppelganger has finished making his cloning liquid! He's going to use it to make a monster which will be able to make copies of itself! He wants to use his army of slime monsters to take over the world! He wants everything, everywhere to look exactly the same! How would that be?

As the first great, green monster oozes out of his lab, Doctor Doppelganger gives it an order.

"Copy yourself! Split... and split again!"

The monster wobbles and jerks. With a horrible sucking sound it splits apart! Now there are two monsters!

1a. If 5 monsters each split into 10 monsters, how many monsters will there be?

1b. If 3 monsters each split into 10 monsters, and then all of those monsters each split into 10 monsters, how many monsters will there be?

1c. If 7 monsters each split into 100 monsters, how many monsters will there be?

1d. Which group of monsters would be bigger: if 4 monsters each split into 10 monsters, and then all of those monsters split into 10 monsters; or if 8 monsters all split into 100 monsters? Why?

