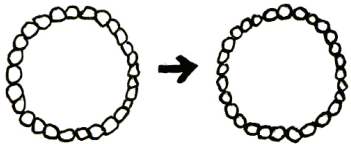
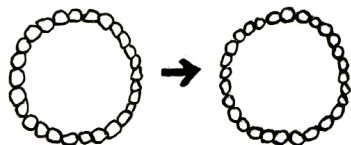
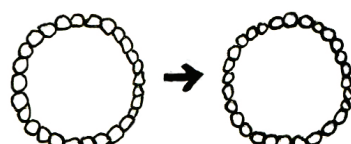


# TWINS!

Visual	Description	How many amniotic sacs?	How many placentas?	Result
	2 eggs, 2 sperm			
	1 egg, 2 sperm			
	1 egg, 1 sperm Zygote splits during first cleavage			
	1 egg, 1 sperm Morula splits			
	1 egg, 1 sperm Inner cell mass splits			
	1 egg, 1 sperm Bi-layer disc splits			
	1 egg, 1 sperm Bi-layer disc almost splits but not completely			
	2 eggs, 2 sperm Zygotes merge together			

NOTE: **Chimerism** is sometimes confused with **mosaicism**. **Mosaicism** (based on the word "mosaic") is the presence of 2 or more populations of cells with different genotypes, but all having come from the same original zygote. Mutations occur at early stages in one of the embryonic stem cells and that mutation is preserved in every future cell from that line. Often, the mutation occurs during anaphase as one chromosome does not get pulled fast enough and ends up being deleted from the genotype of that cell line.

STRANGE FACT: If a set of identical twins marries a set of identical twins, genetic testing will show the cousins to be siblings.