

# Twins

- *two types: identical and fraternal*

## *Identical*

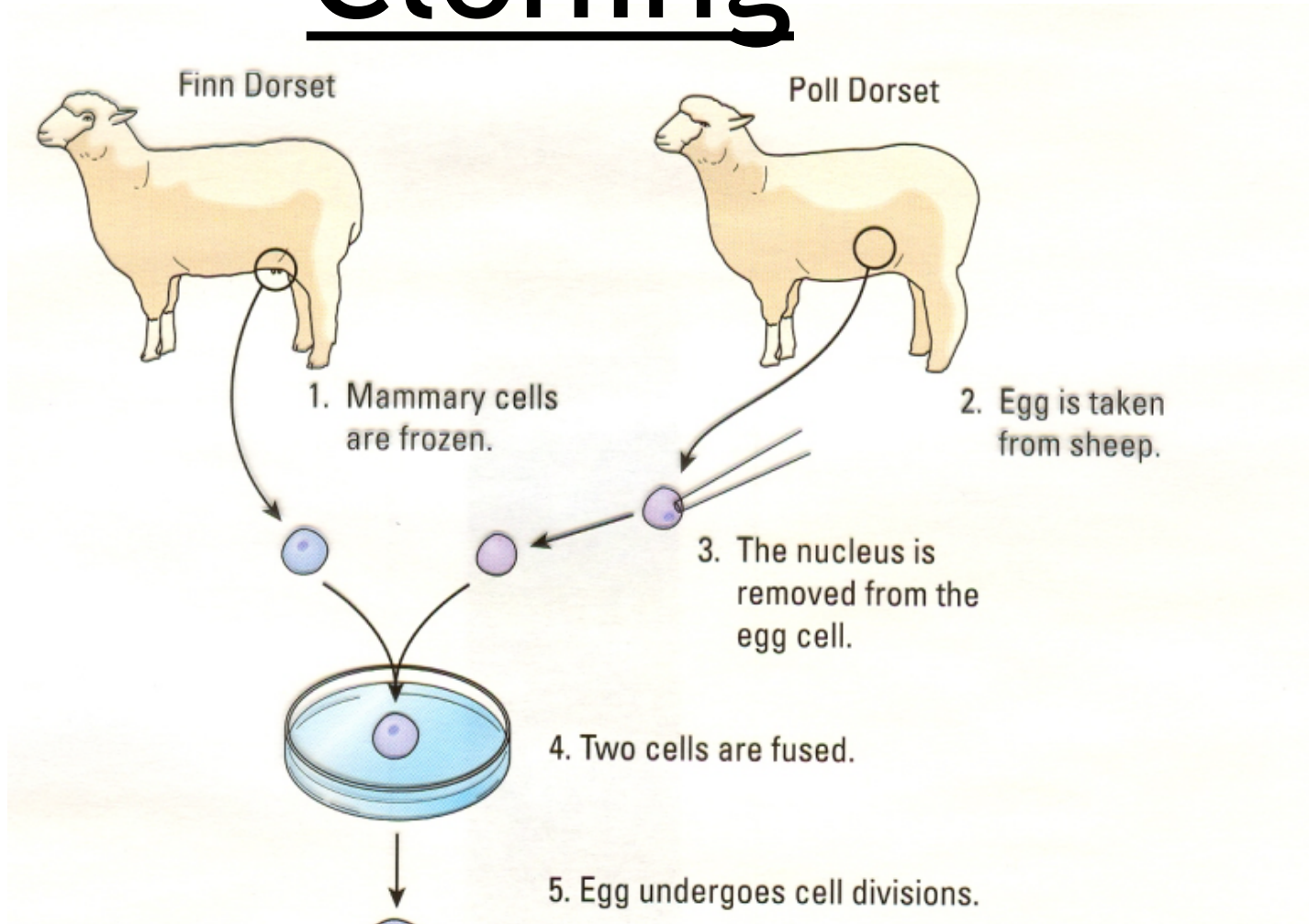
Video

- develop from *ONE* egg that splits into two cells that each develop into separate embryos
- ALWAYS* the same gender
- if separation is *NOT* complete--> conjoined twins

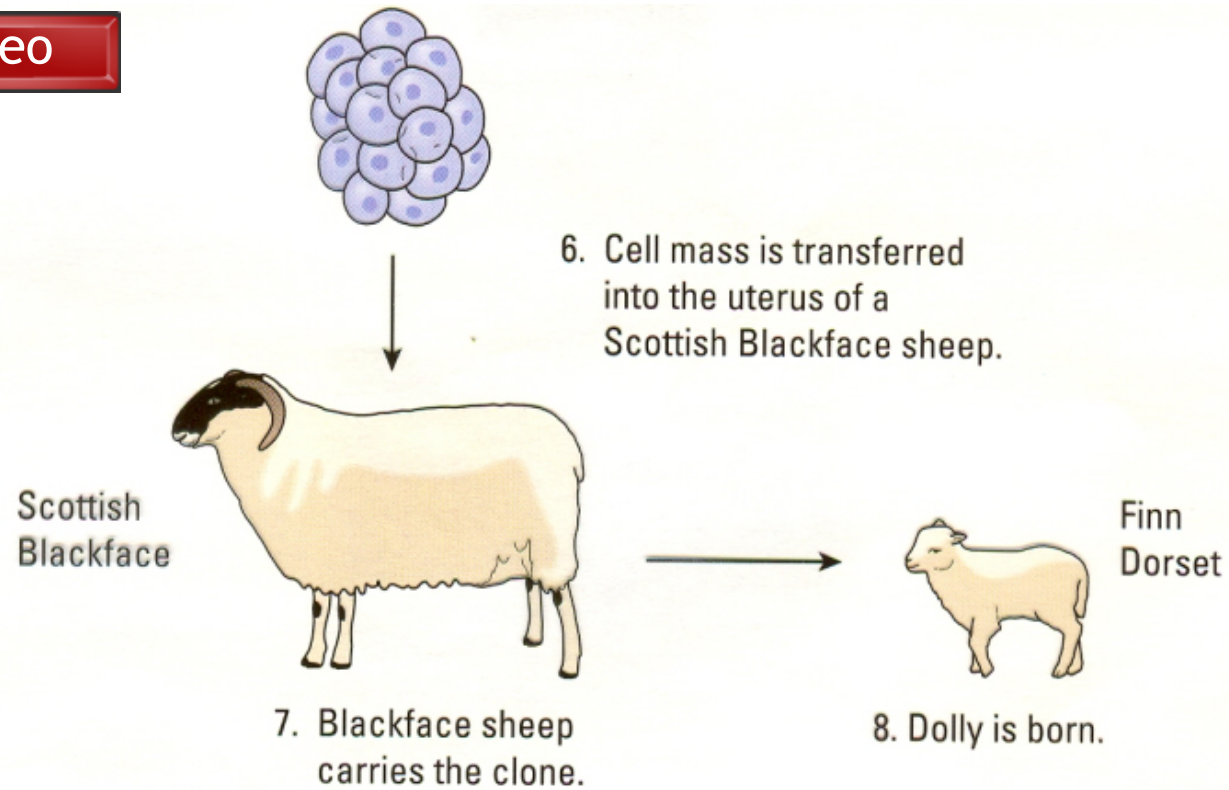
## *Fraternal*

- develop when two separate eggs are fertilized
- may or may not be the same gender
- no more alike physically than any normal brother or sister

# Cloning



Video



Dolly could claim three different sheep as mothers. In fact, her genetic mother died before Dolly was born.

## Genetic Engineering



- *redesigning genes to do specific things*
- *species that have had genetics manipulated are called transgenic*
- *Ex*
  - bacteria used to produce insulin*
  - Round-Up ready corn*
  - stem cell research for organ transplantation, repair*

## Attachments

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Twins.asf

dolly.asf

Manipulating\_DNA.asf