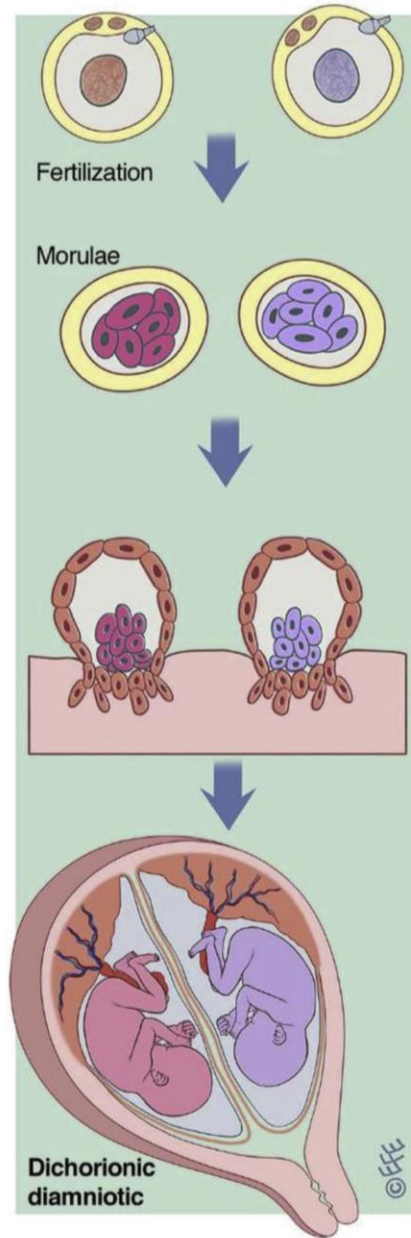


# Case Study #1

After struggling to conceive, Lauren completed a round of IVF (in vitro fertilization), and found out she is pregnant with twins. During a routine ultrasound test it was discovered that the twins shared an amniotic sac. Lauren didn't understand the significance of this but after the twins were born she wanted to know if they were identical or fraternal.

1. In terms of fertilization and implantation, what is the difference between the two types of twins?
2. Based on the ultrasound which type of twins does Lauren have? How did you come to this conclusion?
3. Based on all of this information, around what day in development do you think the twins first formed?

## Dizygotic twinning



## Monozygotic twinning

