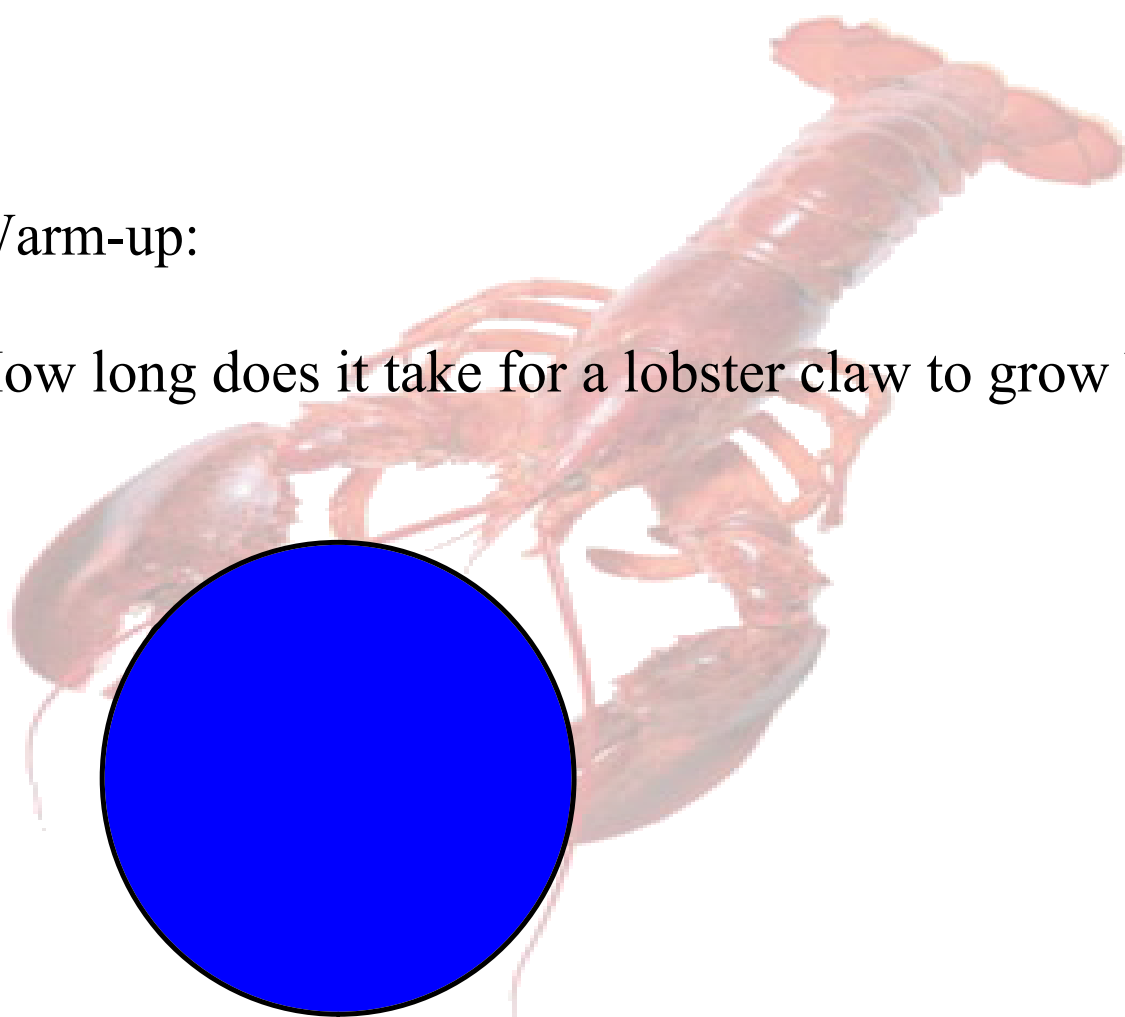


# April 10, 2019

## 1) Regeneration/Stem Cells

Warm-up:

How long does it take for a lobster claw to grow back?



## ★ Regeneration Pg 186 ★

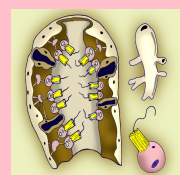
### What is it??

Regeneration is the ability to regrow a part of the body.

### Who??

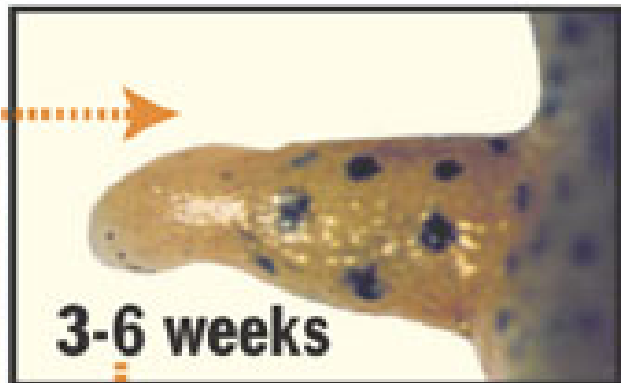
Animals with little specialization can regenerate limbs or body parts i.e. sponges, planarians(a worm), starfish, newts etc.

Why?? Cells in these animals are almost the same no matter where they are found in the body. They have little specialization. This means that they only have a few kinds of cells that do certain jobs.



# Regenerating a limb

A newt can regenerate an entire limb within 7-10 weeks.



# Human Regeneration

What are humans able to re-generate?? Any Ideas??

In humans, blood, bone and skin can regrow or regenerate. Bones that break can be repaired; broken skin (a cut) can heal. A human liver or kidney has some ability to regenerate.

What are humans not able to re-generate??

