

Complete and Incomplete



Metamorphosis

Let's look at the
difference!

metamorphosis?

- Metamorphosis refers to the way that certain organisms develop, grow, and change form.
- Metamorphosis actually means "change".

Two Types of Metamorphosis

- **INCOMPLETE METAMORPHOSIS** -
has THREE stages
- **COMPLETE METAMORPHOSIS** -
has FOUR stages.

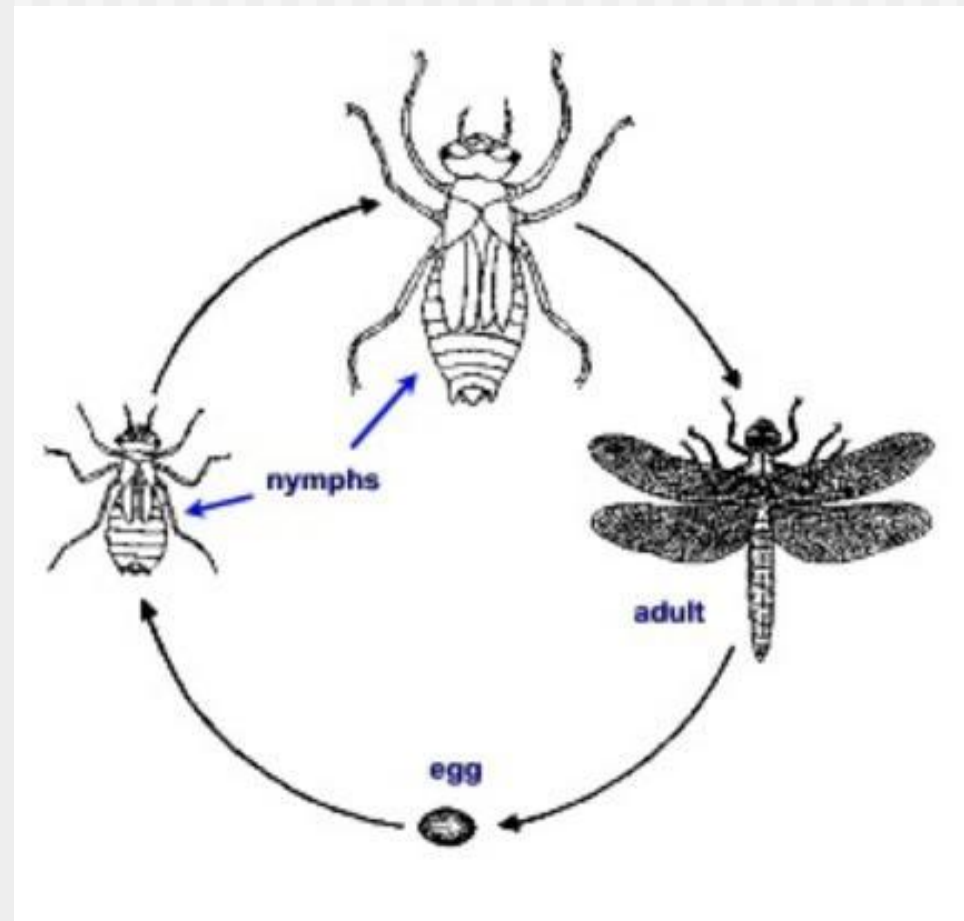
INCOMPLETE

METAMORPHOSIS

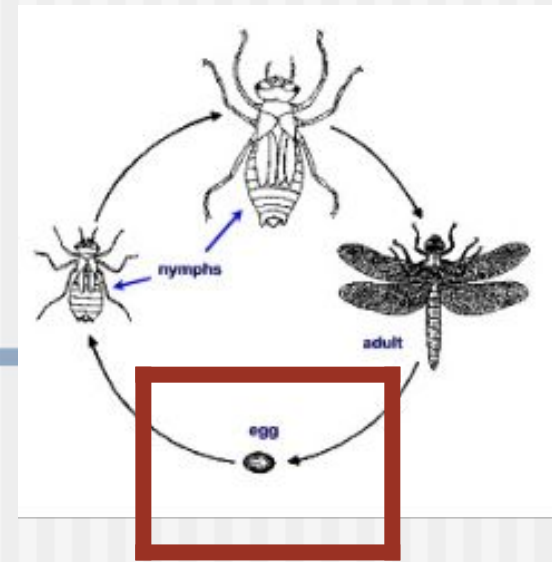
Let's take a closer look
at each stage!

INCOMPLETE METAMORPHOSIS

- Egg
- Nymph
- Adult

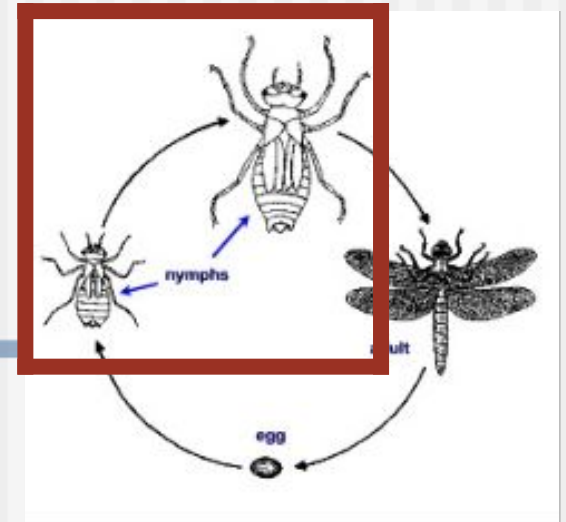


● EGG



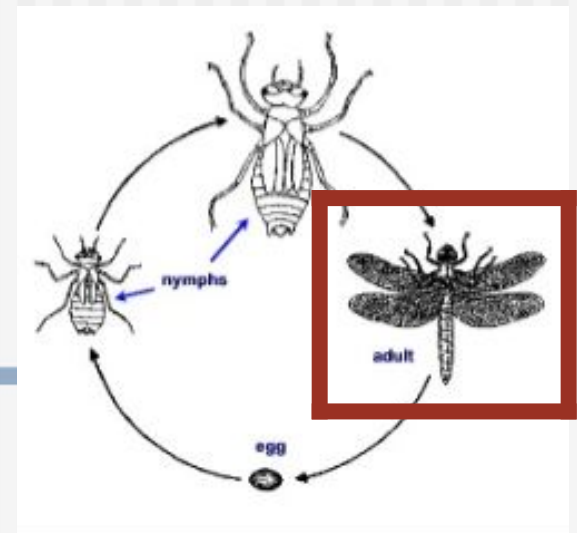
- A female insect lays eggs. These eggs are often covered by an egg case which protects the eggs and holds them together.

● NYMPH



- The eggs hatch into nymphs.
- Nymphs look like small adults, but usually don't have wings.
- Insect nymphs eat the same food that the adult insect eats.
- Nymphs shed or molt their exoskeletons (outer casings made up of a hard substance called chitin) and replace them with larger ones several times as they grow.

- ADULT



- The insects stop molting when they reach their adult size. By this time, they have also grown wings.

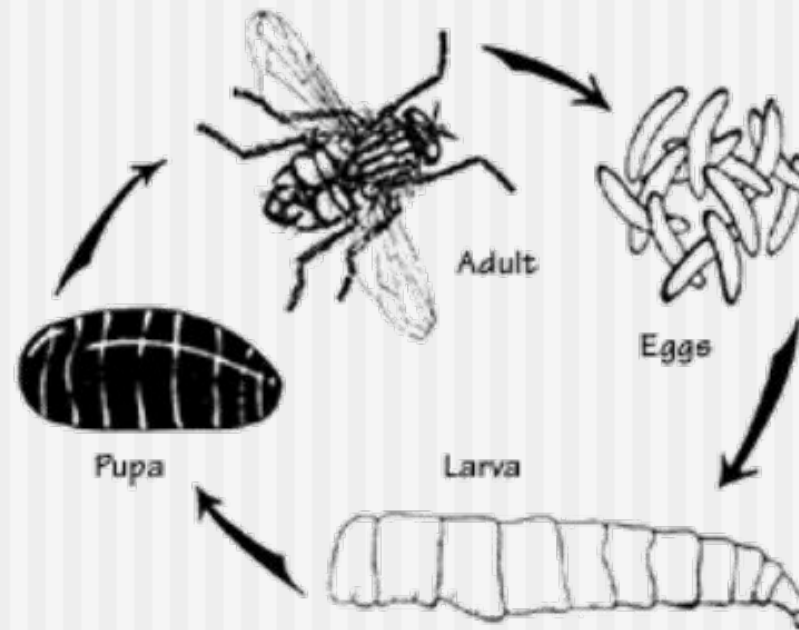
COMPLETE

METAMORPHOSIS

Let's take a closer look
at each stage!

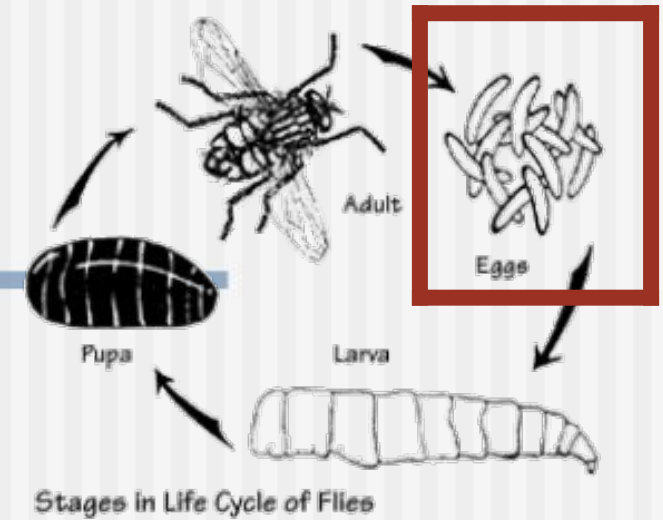
COMPLETE METAMORPHOSIS

- Egg
- Larva
- Pupa
- Adult



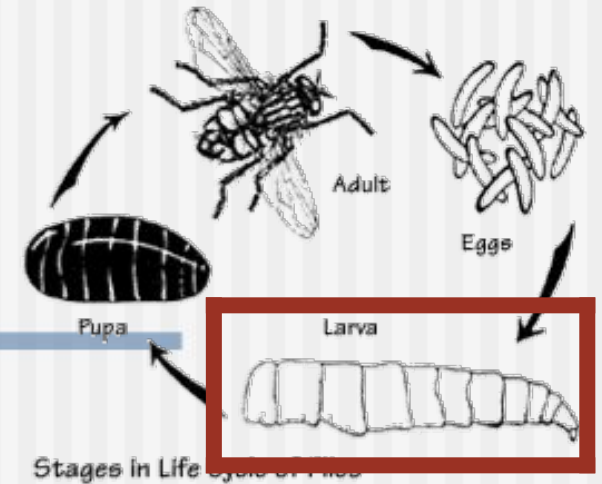
Stages in Life Cycle of Flies

- EGG



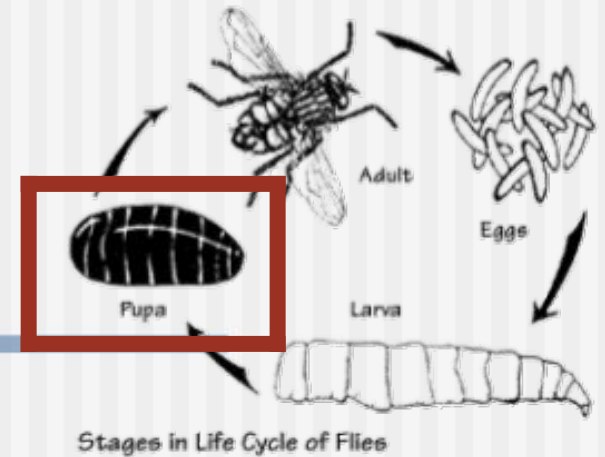
- The female lays eggs.

● LARVA



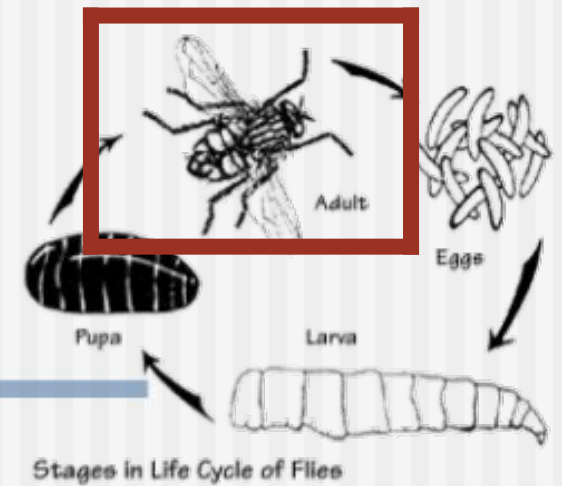
- Larva hatch from the eggs. They do not look like adult insects. They usually have a worm-like shape.
- Caterpillars, maggots, and grubs are all just the larval stages of insects. Larvae molt their skin several times and they grow slightly larger.

● PUPA



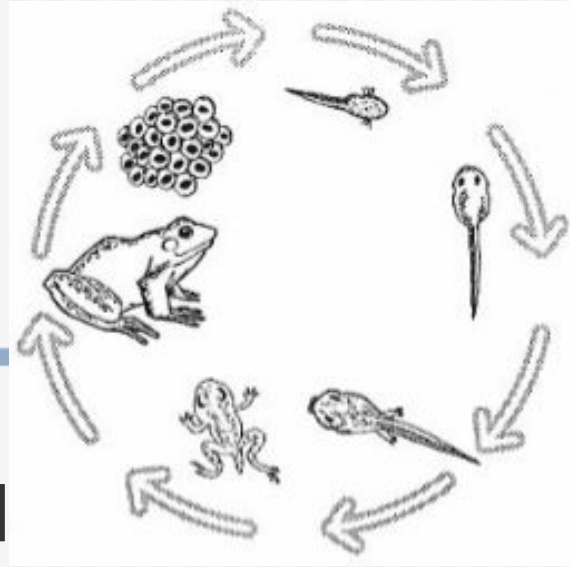
- Larva make cocoons around themselves.
- Larva don't eat while they're inside their cocoons.
- Their bodies develop into an adult shape with wings, legs, internal organs, etc.
- This change takes anywhere from 4 days to many months.

● ADULT



- Inside the cocoon, the larvae change into adults. After a period of time, the adult breaks out of the cocoon.

WHAT ABOUT FROGS?



- Frogs undergo a different type of COM METAMORPHOSIS.
- From the egg emerges a tadpole, which lives in the water, breathes with gills, and has a tail.
- As the tadpole grows, lungs and legs form, and the gills and tail are absorbed into the body.
- Finally, the animal leaves the water and lives mainly on land, as a frog.

Let's see what we
know!

Let's take Professor
Know-It-All's Quiz
and see what we have
learned!



QUESTION #1

- What are the two types of metamorphosis?

1. Complete

2. Incomplete

QUESTION #2

- How many stages are there in incomplete metamorphosis?

Answer: 3

QUESTION #3

- Name the stages of incomplete metamorphosis?

1. Egg

2. Nymph

3. Adult

QUESTION #4

- How many stages are there in complete metamorphosis?

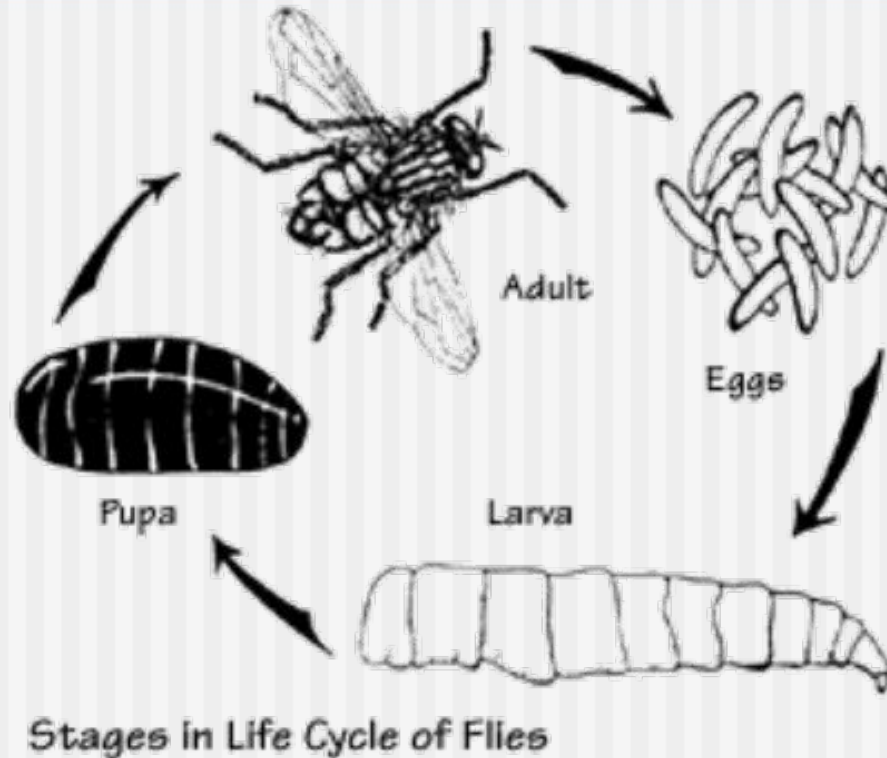
Answer: 4

QUESTION #5

- Name the stages in complete metamorphosis.

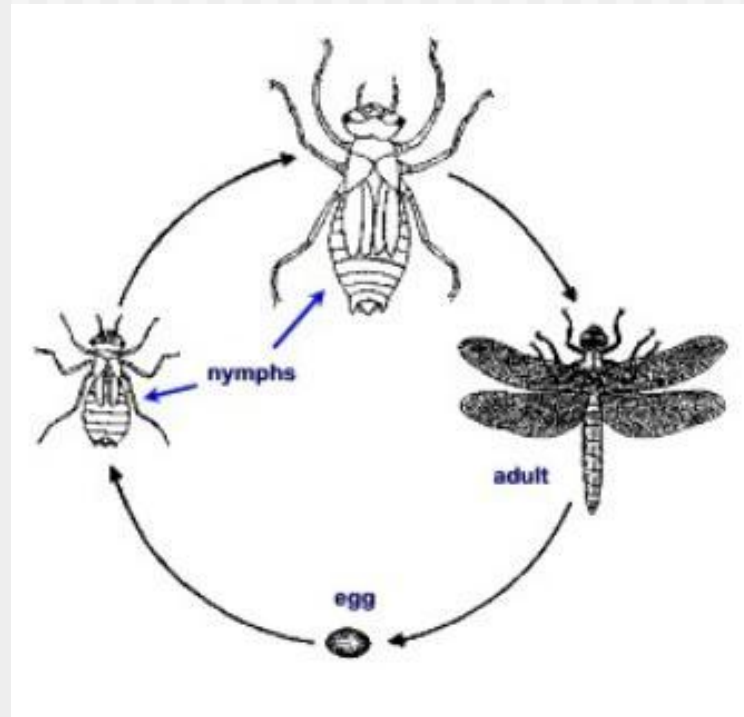
1. Egg
2. Larva
3. Pupa
4. Adult

QUESTION #6



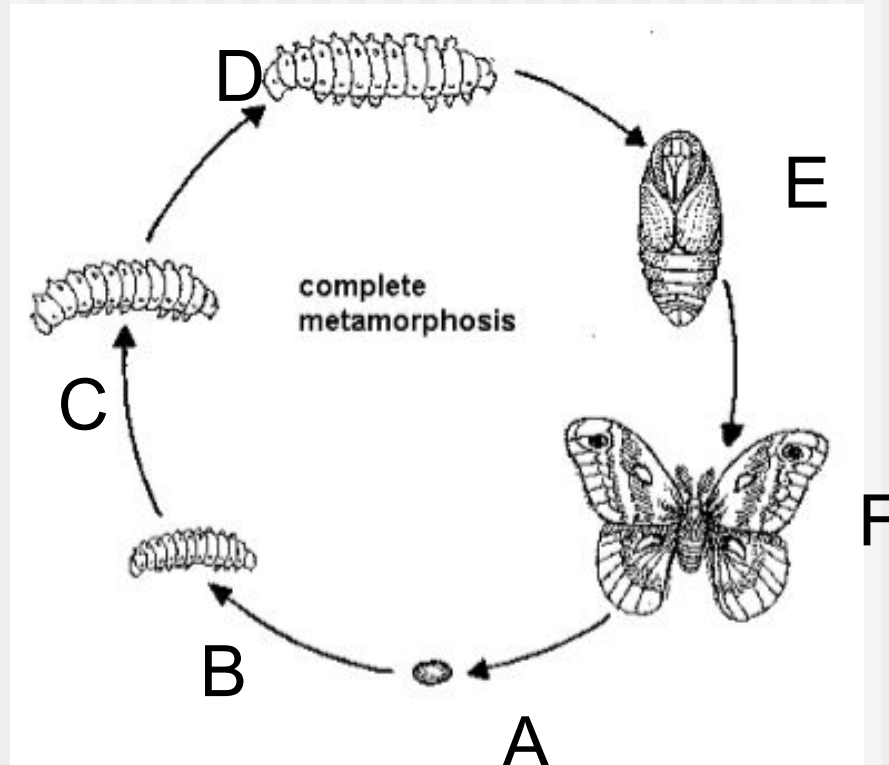
Identify the cycle as complete or incomplete metamorphosis.

QUESTION #7



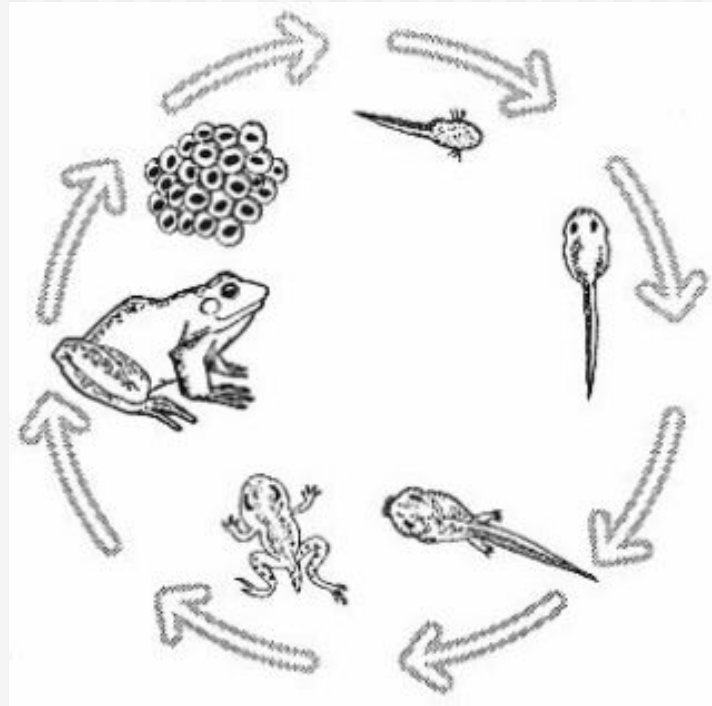
Identify the cycle as complete or incomplete metamorphosis.

QUESTION #8



Identify each stage of the complete metamorphosis of the butterfly.

QUESTION #9



Identify the lifecycle of the frog as complete or incomplete metamorphosis.

YOU'VE JUST COMPLETED PROFESSOR KNOW-IT-ALL'S QUIZ



*How did
you do?*