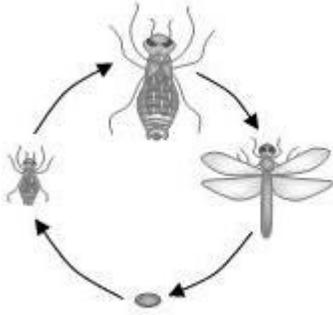


## CISD Grade 5 Science Unit 10

Some questions (c) 2012 by CSCOPE.

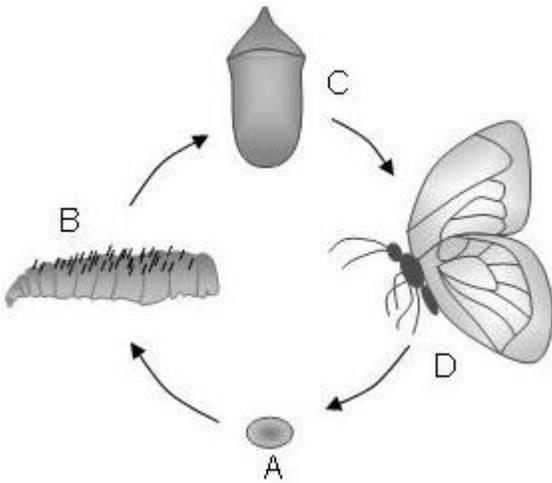
1



What type of life cycle is represented by the diagram?

- A complete metamorphosis
- B transformation by nymph
- C incomplete metamorphosis
- D transformation by egg

2



At what point in the life cycle does the insect eat leaves?

- F A
- G B
- H C
- J D

3 What is a main difference between a larva and a nymph?

- A The larva looks like a larger form of an egg.
- B The larva looks much like the adult form of the insect.
- C The larva eats the same foods as the adult form of the insect.
- D The larva creates a cocoon around itself.

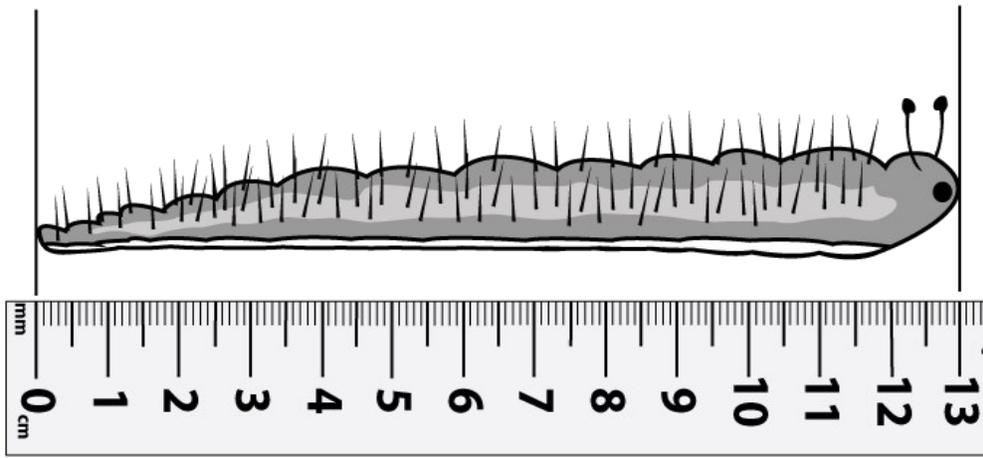
**Use the following information for the next three questions.**

### Life Cycle of a Luna Moth

Luna moths are large, lime-green colored moths which are rarely seen because they are active only at night. The adult moths mate very late at night, and before morning the female will lay from 100 to 200 eggs. After 10-12 days, the eggs hatch into hungry caterpillars which feed constantly on persimmon, sweet gum, hickory, and walnut leaves. The larvae stage lasts about 3-4 weeks. Then the caterpillars spin silk and use it to wrap themselves in a cocoon made of leaves. This is the pupa stage. Inside the cocoon, the moth grows 4-6 weeks into an adult. Adult Luna moths live only one week, during which time they mate and produce eggs. The adult moths cannot eat because they do not have a mouth. Once the female lays eggs, she dies.

- 
- 4** Refer to the *Life Cycle of a Luna Moth* reading. Which statement DOES NOT describe the adult stage of the Luna Moth?
- F** lives one week
  - G** eats leaves
  - H** lays 100-200 eggs
  - J** mates late at night
- 5** According to the passage what stage of the Luna Moth life cycle will follow the adult stage?
- A** larva
  - B** adult
  - C** egg
  - D** pupa
- 6** If the Luna Moth's eggs are laid on May 20, on which day would they hatch?
- F** May 24
  - G** May 31
  - H** June 5
  - J** June 11

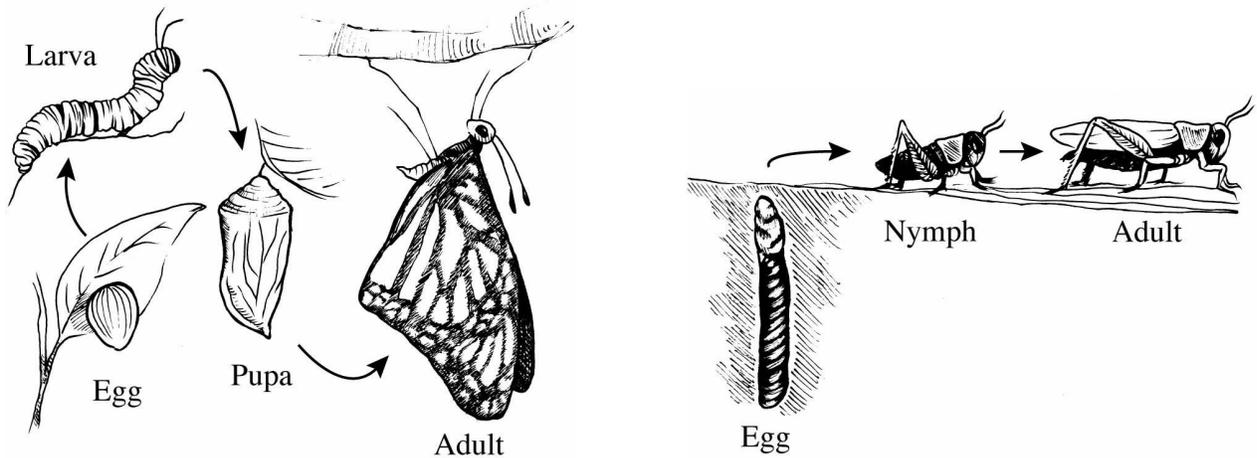
7



How long is the caterpillar in mm?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

8



The diagrams above show the life cycle of a butterfly and the life cycle of a grasshopper.

Describe two ways the life cycles of a butterfly and grasshopper are different.

What stage of the butterfly life cycle is most like the nymph stage of the grasshopper's life cycle? Explain your answer.