

Date:

Taxonomy

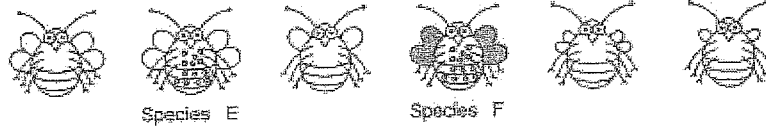
Name:

1. Base your answer on the accompanying diagram and on your knowledge of biology. The diagram represents six insect species.

A dichotomous key to these six species is shown in the accompanying diagram.

a Complete the missing information for sections 5.a. and 5.b. so that the key is complete for all six species. [1]

b Use the key to identify the drawings of species A, B, C, and D. Place the letter of each species on the line located below the drawing of the species or on a separate piece of paper. [1]

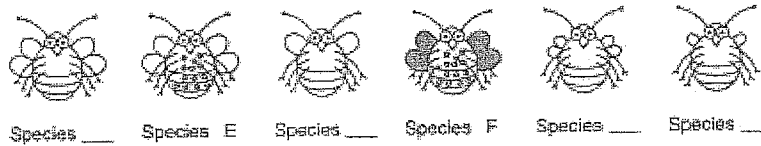


Part a

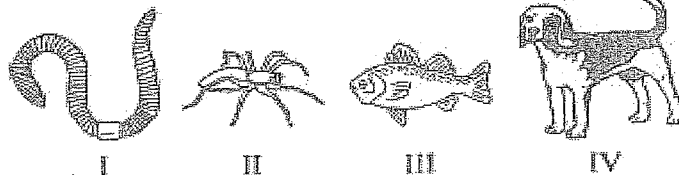
Dichotomous Key

1. a. has small wings go to 2
b. has large wings go to 3
2. a. has a single pair of wings Species A
b. has a double pair of wings Species B
3. a. has a double pair of wings go to 4
b. has a single pair of wings Species C
4. a. has spots go to 5
b. does not have spots Species D
5. a. _____ Species E
b. _____ Species F

Part b



2. Fill in all of the blanks in parts 2 and 3 of the dichotomous key shown in the accompanying diagram and chart, so that it contains information that could be used to identify the four animals shown. [2]



Dichotomous Key

- 1. a. Legs presentGo to 2
- b. Legs not present.....Go to 3

Characteristic	Organism
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- 2. a. _____
- b. _____

55 A dichotomous key is shown below.

3. a. _____

b. _____

Dichotomous Key

- 1. a. tail fins are horizontal.....go to 2
- b. tail fins are vertical.....go to 3
- 2. a. has teeth or tusk.....go to 4
- b. has no teeth.....*Balaena mysticetus*
- 3. a. has gill slits behind mouth.....go to 5
- b. has no gill slits.....*Lepidosiren paradoxa*
- 4. a. black with white underside.....*Orcinus orca*
- b. tusk, gray with dark spots.....*Monodon monoceros*
- 5. a. head is hammer shaped.....*Sphyrna mokarran*
- b. tail fins are half the body length.....*Alopias vulpinus*

Use the dichotomous key to identify the scientific name of the organism represented below. [1]

