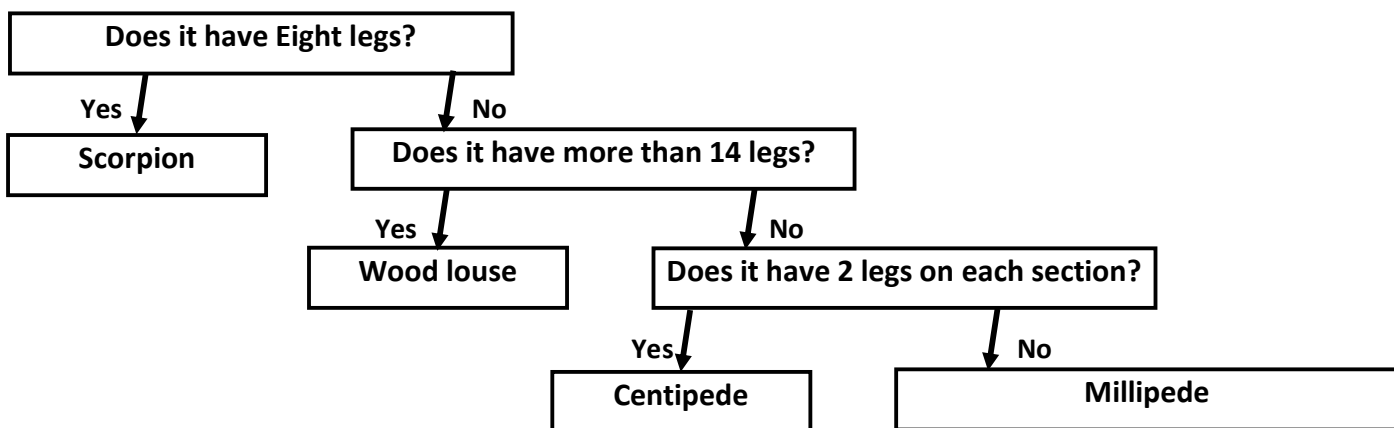




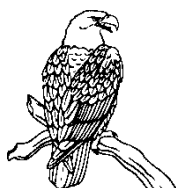
Q1. Identify the organisms with the help of the dichotomous key.

Animal: A	Animal: B	Animal: C	Animal: D



Q2. Look at the organisms and find 3 similarities and 3 differences between them.

Eagle



Penguin



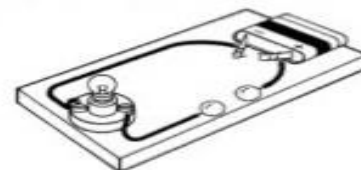
Similarities	Differences

1. The electrician wears rubber gloves for protection. The purpose of the rubber gloves is to:

- A. Keep the electrician dry
- B. Produce electricity
- C. Create an electrical circuit
- D. Insulate the electrician

2. This instrument can be used to see if materials conduct electricity. Which of these groups contains items that could all conduct electricity to complete the circuit?

- A. Rubber ball, plastic comb, nail
- B. Paper clip, penny, screw
- C. Cork, dollar bill, tweezers
- D. Pencil, eraser, spoon



3. In which circuit will the bulbs glow brightest?

- A. A simple circuit with one bulb and one battery
- B. A simple circuit with one bulb and two batteries
- C. A simple circuit with two bulbs and one battery
- D. A simple circuit with two bulbs and two batteries

4. Why is electrical wiring usually made from copper?

- A. Copper is shiny
- B. Copper conducts electricity
- C. Copper is non magnetic
- D. Copper is good thermal conductor

Q.3 Fill in the missing spaces with the words from the light bulb below.



Electricity

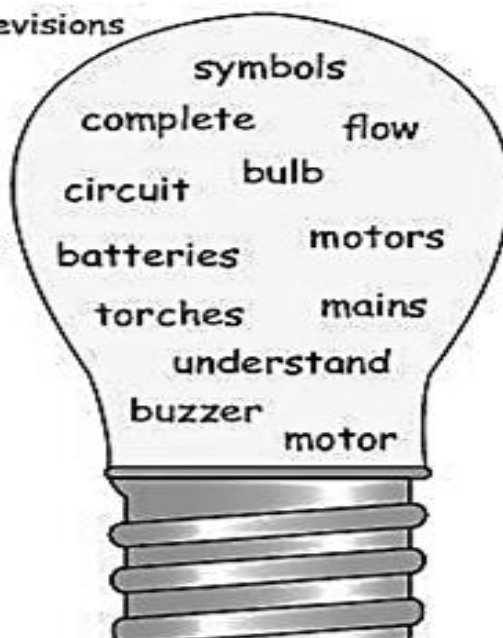


An electricity supply comes from either the mains or _____ . For an electric circuit to flow you must have a _____ circuit. Electricity can only _____ in one direction. To make a simple electrical _____ we need a power source, wire and other components such as bulbs, switches and _____ .

Electrical devices such as ovens and televisions use the _____ supply. Electrical devices such as remote controllers and _____ use batteries.

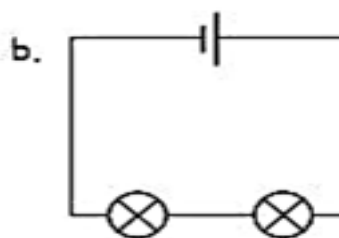
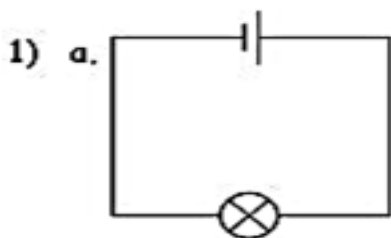
When we draw circuits we use _____ to draw them. This makes it easy to draw and _____ .

Name these symbols:

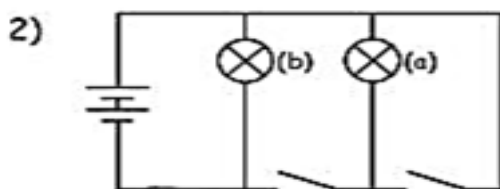


Q.4

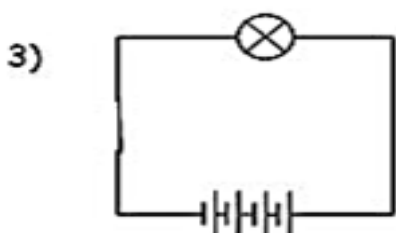
Look at the circuits below and answer the questions:



Which diagram would produce the brightest bulb? _____



Which bulb in this circuit would light up? _____
Why would the other bulb not light up?



What would happen to the bulb in this circuit? _____

- Which part of a food chain is affected by one animal becoming extinct?
 - The whole food chain is affected.
 - Only animals at the top of the food chain are affected.
 - Only plants and animals at the bottom of the food chain are affected.
- Where would you expect to find a woodlouse?
 - In a hot, sunny place
 - In a dark, damp place
 - In a dark dry place
- Which habitat does a rabbit live in?
 - desert
 - meadow
 - river
- One cause of habitat destruction is:
 - Too many plants
 - Extreme weather conditions
 - Pollution
- A population of mice lives in a barn community. A cat population has joined the community. What will happen?
 - Mouse and cat population will both go up.
 - Mouse and cat population will both go down.
 - Mouse population goes down and cat population goes up.

Q.5 Fill in the blanks with the words given in the tree.

A _____ is a place where plants and animals live. Habitats are places like woodlands, desert, ponds and _____. Animals and plants have adapted to their different habitats. Frog spends their time near _____ when it's time to lay their _____. Camels can go far a week without water making life in the _____ easier. Polar bears have long _____ to help them move about in the _____ and ice, where as humans have to _____ to the environment and _____ they are in by wearing fewer clothes in hot places, and more _____ in cold places.



Q.6 Ravi and Sara were finding out which animals lives under large stone and bricks. They discovered 11 woodlice, 3slugs and 4 earthworms. Why might these animals have chosen to live under large stones and bricks? Write down three reasons.

- _____
- _____
- _____

Q.7 Look at the food chain given below and answer the following questions:



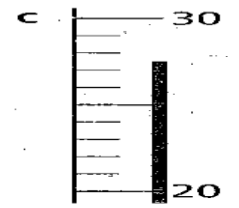
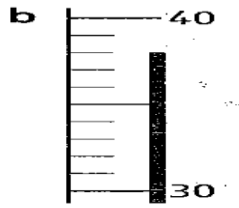
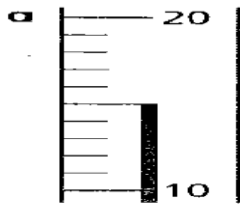
- Identify the following organisms:
 - prey of snake: _____
 - herbivore: _____
- Name the main source of energy in the food chain.

- What do arrows in a food chain represent?

- Name an organism which is both a predator and a prey.

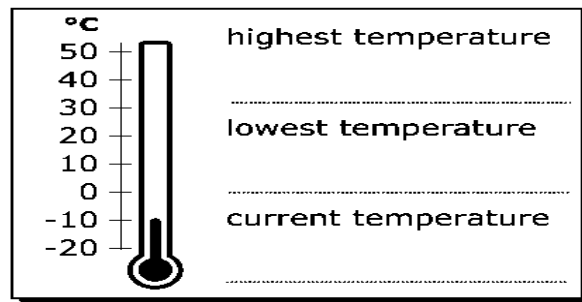
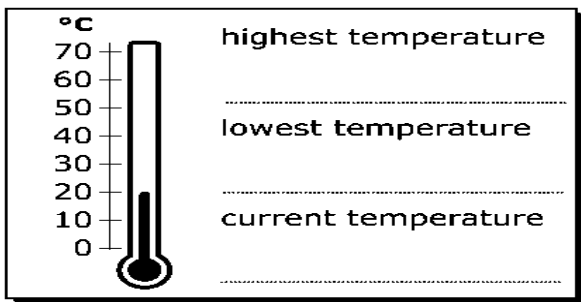
e. What would happen to the population of frogs if all the eagles are killed?

Q.8 What temperatures are shown in the thermometers shown below? Mention the unit.

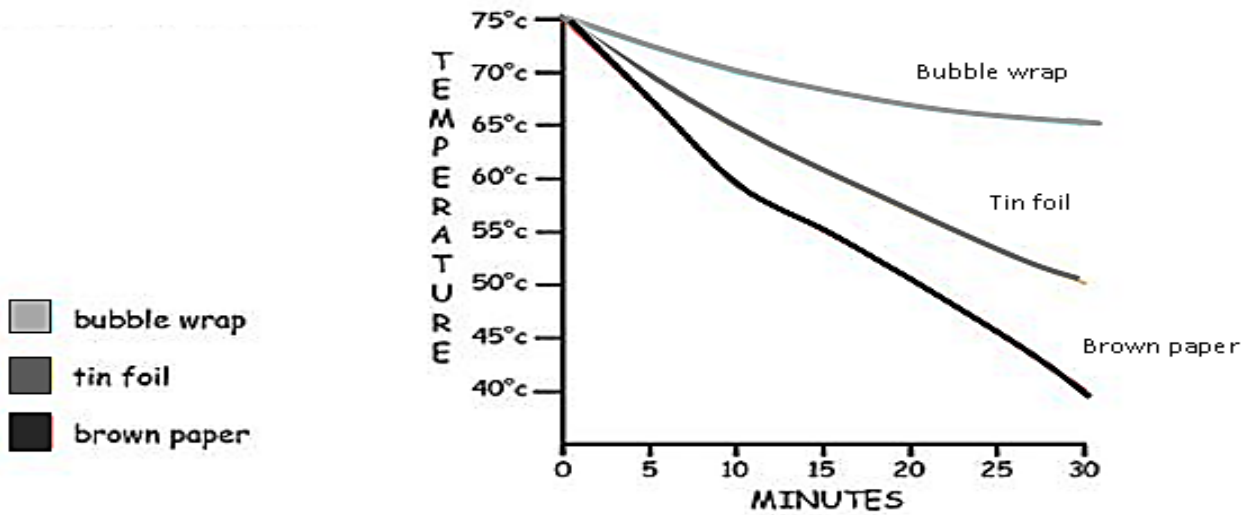


Q.9 Look carefully at each thermometer. For each one, write:

- the highest temperature it can read.
- the lowest temperature it can read.
- the temperature it is currently showing.



Q.10 Below is a graph showing the results of an experiment conducted by the students of class 4 on hot chocolate.



- Which insulator worked the best? _____
- What was the temperature of hot chocolate wrapped in bubble wrap after 30 minutes?

- Which insulator was the least effective? _____
- What was the temperature of hot chocolate wrapped in tin foil after 30 minutes?

- What was the temperature of hot chocolate wrapped in brown paper after 30 minutes?
