

Name \_\_\_\_\_

Teacher \_\_\_\_\_

# Earth Science Test

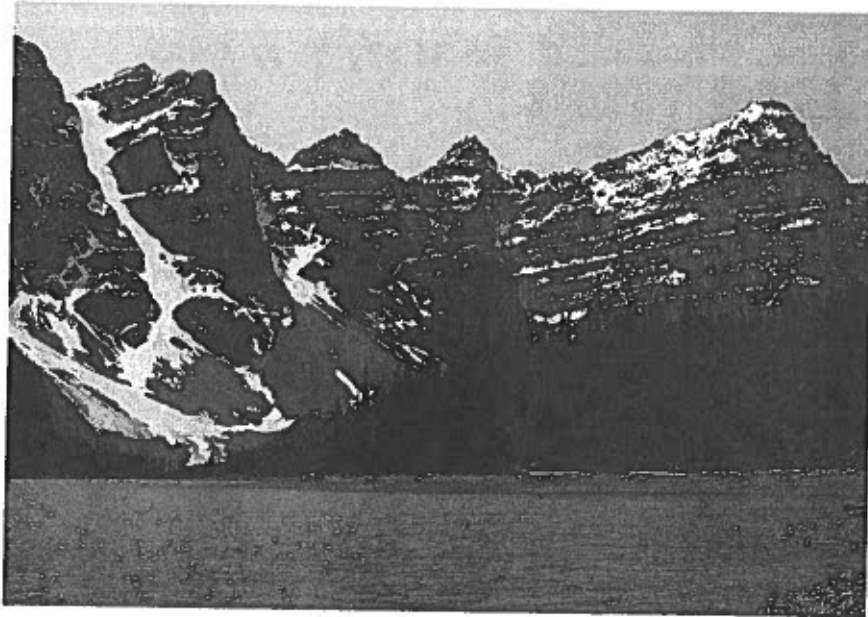
- 1** A student observes the times of sunrise and sunset on the first day of every month for three months. The student's data are in the table below.

Date	Time of Sunrise	Time of Sunset
January	7:41 a.m.	5:45 p.m.
February	7:33 a.m.	6:12 p.m.
March	7:07 a.m.	6:36 p.m.

Based on the student's data, when is the sun most likely to set on the first of April?

- A** 6:15 p.m.
  - B** 6:30 p.m.
  - C** 7:00 p.m.
  - D** 7:15 p.m.
- 
- 2** Which event shows evidence of the Earth's rotation?
- F** The Sun seeming to move across the sky.
  - G** The moon gradually getting smaller over several nights.
  - H** The days getting longer in spring.
  - J** The temperature getting cooler in fall.

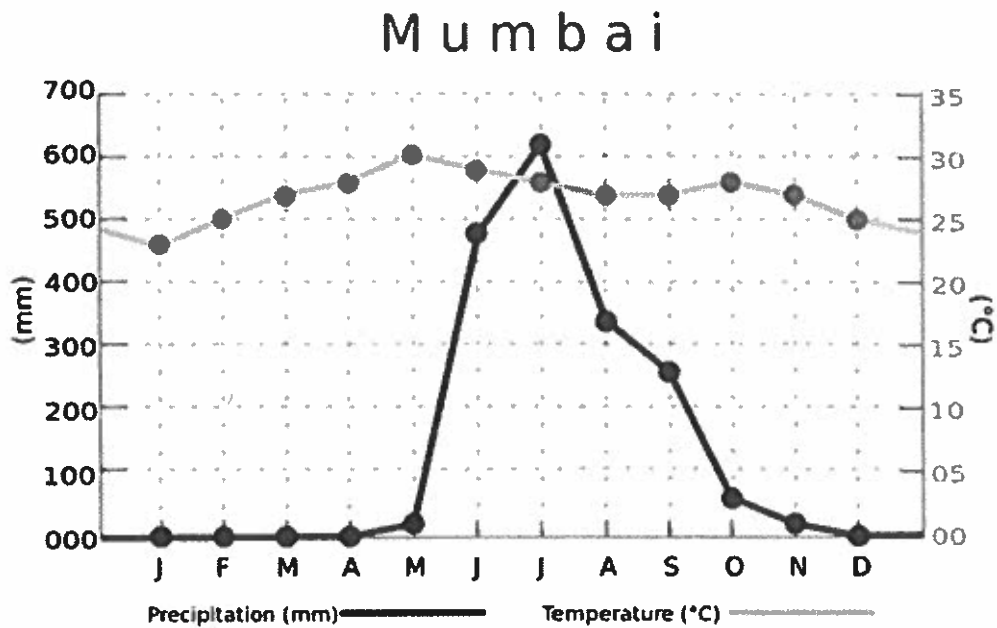
- 3 The photo below shows a land form.



Geologists believe the shape of this land was affected by a moving glacier. Which fact about this land does NOT support this conclusion?

- A The land is beside a lake.
  - B The land has sharply pointed mountain formations.
  - C The land has accumulated snow.
  - D The land has mounds of small rocks and gravel at the mountain base.
- 
- 4 Which of the following ecosystem from the past would NOT be a likely place to find natural gas today?
- F A grassland with lions, giraffes, zebras and elephants.
  - G A forest where many dinosaurs roamed for food.
  - H An ocean abundant with many forms of fish.
  - J A rocky desert with no plant or animal life.

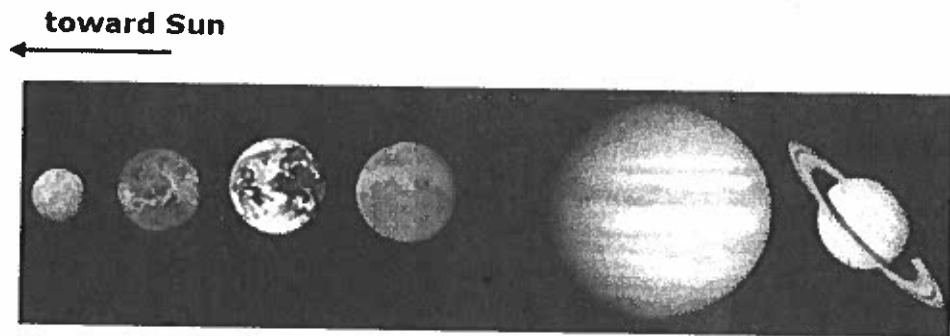
- 5 This graph illustrates the averages of temperature and precipitation (rainfall) over the course of several typical years in the Indian city of Mumbai.



Why is the information on the graph considered to describe climate, rather than weather?

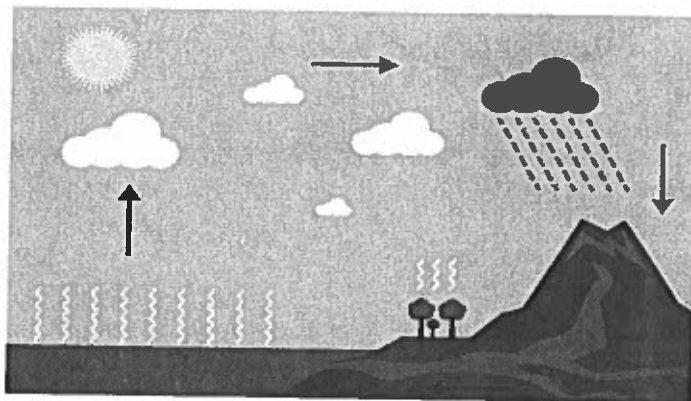
- A It makes no predictions.
  - B It is entirely accurate.
  - C It describes the temperature for only one year.
  - D It summarizes data from many years.
- 
- 6 A student puts water and sand into a shallow pan. Moving the pan to one side causes the water to shift, pulling the sand into the water. The student is modelling the first steps in which process?
- F Beach erosion
  - G Volcanic eruption
  - H Canyon creation
  - J Sediment deposition

- 7 This picture shows a partial sequence of the planets in our solar system.



What is the next planet that should come to the right of the picture?

- A Saturn
  - B Mars
  - C Uranus
  - D Venus
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- 8 This picture shows how water moves from clouds to Earth's surface through the water cycle.

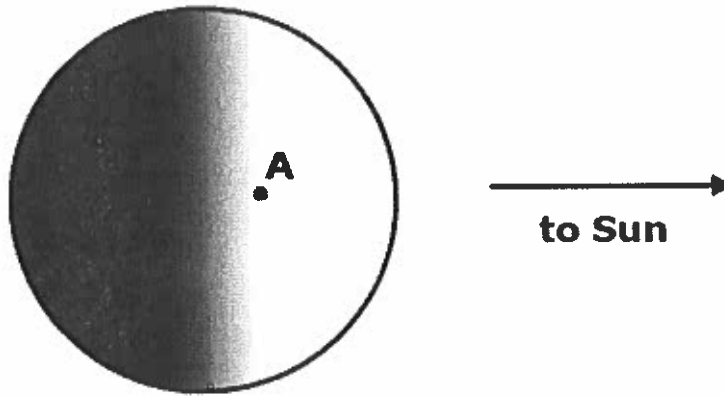


Which statement explains how most of the water was provided to clouds?

- F Foam formed by ocean waves rose through the atmosphere.
- G Solar heating caused surface water to evaporate.
- H Volcanic eruptions moved steam high into the atmosphere.
- J Snow melted and turned in to streams of water.

- 9 Which best compares the force of gravity at the surfaces of the Sun, Earth, and Moon?
- A The Sun's gravity is much stronger than Earth's or the Moon's.
  - B The Sun's and Earth's gravity are about equal, while the Moon's is much weaker.
  - C Earth's gravity is strongest, then the Moon's, and finally the Sun's.
  - D The force of gravity is roughly equal for the Earth, Moon, and Sun.
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- 10 This is a model of day and night on Earth.

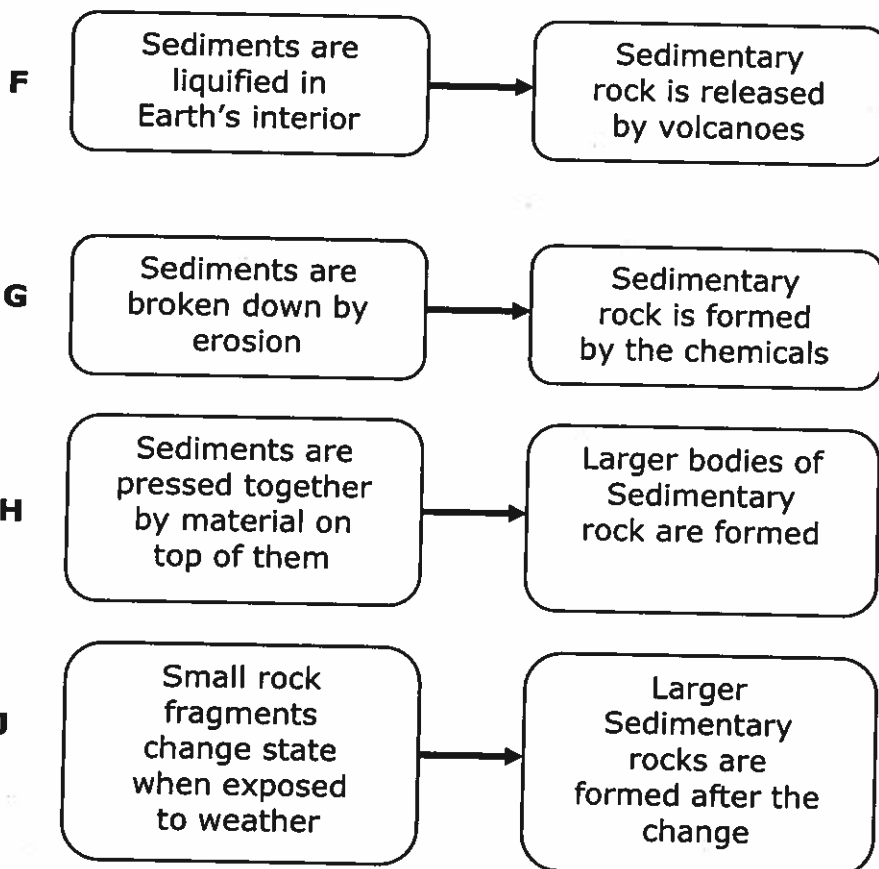


From the perspective of a person standing at point A, the Sun has just risen. How long will it be before this event repeats for a person standing at A?

- F 60 minutes
- G 12 hours
- H 24 hours
- J 28 days

- 11** Wind interacts with the ocean surface to help form waves and speed up evaporation. Which source is indirectly working with the ocean water to cause this interaction?
- A** The plants rooted on the ocean floor.
  - B** The Sun's heat.
  - C** The small organisms floating on the ocean surface.
  - D** The Moon's gravitational pull.

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- 12** Which diagram below best describes a process that turns sediments into sedimentary rock?

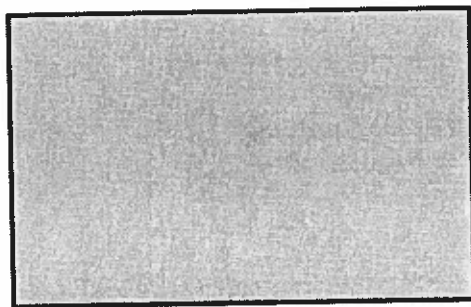


**13** A car manufacturer plans to design a car that uses a renewable energy as its fuel. Which resource could be used as its source of energy?

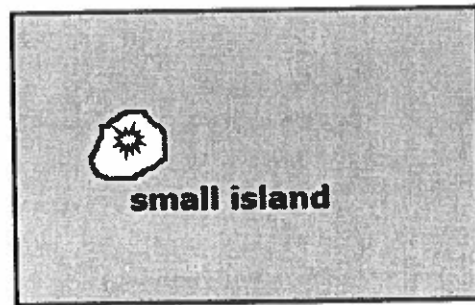
- A** Natural Gas
- B** Vegetable Oil
- C** Electricity
- D** Coal Powder

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**14** Surveys of the same ocean area performed a year apart produce different maps.



**ocean area year 1**



**ocean area year 2**

Which of the following most likely produced the changes seen here?

- F** An earthquake
- G** A volcano
- H** A landslide
- J** A hurricane



- 15** Because wind is the force that moves sand dunes, their speed of movement can be affected by which of the following?
- A** The color of their sand.
  - B** The temperature of their sand.
  - C** Which animals live on the dunes.
  - D** Whether plants grow on the dunes.

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- 16** A student examines a plant and soil sample taken on a field trip.



The healthy growth of the plant suggests that the soil has which properties?

- F** It is dry and has a high sand content.
- G** It is pale and has a high clay content.
- H** It is hard and has a high silt content.
- J** It is moist and has a high humus content.

**17** On a field trip to a science museum, a class sees a model of the Sun – Earth system. The system moves to model day and night on Earth at the normal rate of change. Which of the following must be true about this model?

- A** The model Sun rotates on its axis once every 30 days.
- B** The model Earth rotates on its axis once every 24 hours.
- C** The model Earth revolves around the Sun once every 24 hours.
- D** The model Earth revolves around the Sun once every 30 days.

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**18** A student records the following information about an energy resource used by humans.

**Energy Resource Characteristics**

- |  |
|--|
| <ul style="list-style-type: none"><li>• found underground as a liquid</li><li>• energy is released by burning</li><li>• produces gas and particle pollution when used</li><li>• nonrenewable</li></ul> |
|--|

Which energy resource is the student most likely describing?

- F** Tidal
- G** Oil
- H** Solar
- J** Coal

- 19** In North Texas, the weather in a small town is predicted to go from light rain at 1 pm to heavy snow at 7 pm. What will most likely be the cause of this change in weather from 1 pm to 7 pm?
- A** The temperature going down and an increase in precipitation.
  - B** The temperature going down and a decrease in precipitation.
  - C** The temperature going up and a decrease in precipitation.
  - D** The temperature going up and an increase in precipitation.
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- 20** Hundreds of millions of years ago, swamps in the eastern United States were covered over by ocean water. This caused the material in the swamps to ultimately turn into –
- F** rock and gravel.
  - G** underground pools of water.
  - H** metals, like iron and aluminum.
  - J** fossil fuels.

