

Name: _____
Date: _____
Period: _____

MAP Prep – Earth & Space Science

- The **best** evidence that two land areas were once connected is the discovery that both land masses
 - Have the same climate
 - Are in the same stage of succession
 - Exist along the same line of longitude
 - Have similar types of rocks and fossils
- Which of the following is a necessary condition for a lunar eclipse to occur?
 - The moon must be full
 - The moon must be waxing
 - It must be the beginning of the month
 - It must be winter in the Northern Hemisphere
- Which is the thickest layer of the earth?
 - Crust
 - Inner Core
 - Mantle
 - Outer Core
- The pull of gravity on earth is the direct result of
 - Mass of the earth
 - Rotation of the earth on its axis
 - Magnetic field of the earth
 - Weight of the earth's atmosphere
- Harmful ultraviolet waves from the sun are **primarily** absorbed by
 - dust
 - ozone
 - land masses
 - water vapor
- The surface gravity of Pluto is the weakest of the nine planets because Pluto
 - Has the lowest temperature
 - Rotates the slowest
 - Has the smallest mass
 - Is furthest from the sun
- The current separation of Africa and South America is **best** explained by
 - Volcanic eruptions
 - Coastal Flooding
 - Magnetic changes
 - Plate tectonics
- Boston, Massachusetts and Minot, North Dakota are located at about the same latitude and are about the same height above sea level. The chart below shows the average temperatures in these cities in January.

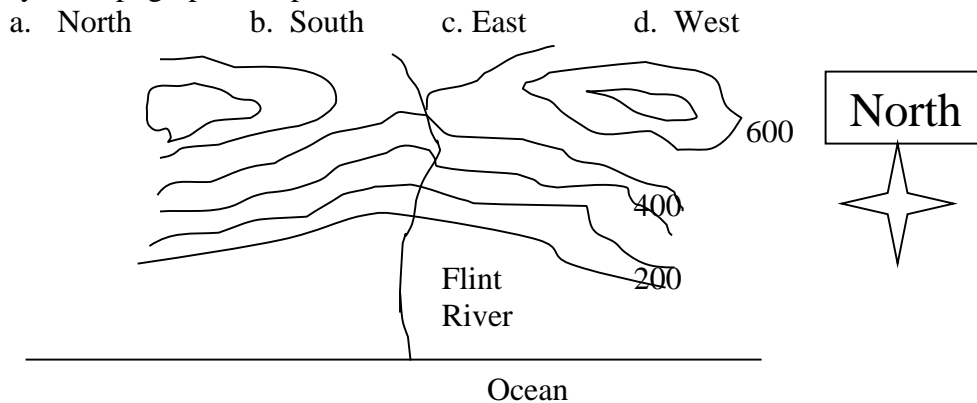
| Average Daily Temperature In January | |
|--------------------------------------|---------|
| Boston, Massachusetts | 4 °C |
| Minot, North Dakota | - 14 °C |

What best explains why it is warmer in Boston, Massachusetts?

- Boston is near the ocean and water moderates its temperature
 - Arctic air masses do not readily move into bays like the one around Boston
 - The Atlantic Ocean is warmer than the Pacific
 - Boston receives more direct sunlight than Minot
- Which technological advancement has done the most to improve weather predictions?
 - Barometer
 - Weather balloons
 - Anemometer
 - Satellites

10. Which statement about the sun is true?
- The Sun is a very large star which exists far from the Milky Way Galaxy
 - The Sun is at the center of the Milky Way Galaxy
 - The Sun is a medium-size star near the edge of the Milky Way Galaxy
 - The Sun has the Milky Way Galaxy and several other galaxies orbiting it.
11. A solar eclipse occurs when
- The moon blocks the earth from the sun.
 - The first four planets in the solar system are aligned
 - Earth blocks the moon from the sun
 - Earth's shadow falls on the sun.
12. The primary cause of continental drift, earthquakes, and volcanic eruptions is
- A convection current beneath the earth's crust
 - The rotation of the earth on its axis
 - The gradual sinking of the earth's crust
 - The heat from the sun warming the earth

13. Study the topographic map below. Which direction does the river flow?



14. Large amounts of industrial gases are released into the atmosphere every day, What happens to those gases?
- They are broken down by ultraviolet light from the sun
 - They are converted into nitrogen and oxygen
 - They rise through the atmosphere and go out into space.
 - They remain in the atmosphere for long periods of time.
15. The energy that allows the water cycle to occur comes from
- friction
 - electricity
 - the sun
 - radioactive decay
16. Betsy wants to know if the rainfall in her town contains pollutants. The best way for Betsy to gather this information would be to collect
- One sample on one rainy day
 - One sample a day on several rainy days
 - Several separate samples on one rainy day
 - Several separate samples on several rainy days