

1. Global warming is
 - a. an increase in the average global temperature.
 - b. a myth.
 - c. caused by a decrease in atmospheric concentration of greenhouse gasses.
 - d. irreversible.
2. One possible cause of global warming over the past 100 years is
 - a. an increase in solar output.
 - b. an increase in volcanic activity.
 - c. an increase in burning of fossil fuels.
 - d. an increase in land area covered by forests.
3. In California, most fresh water available during the summer months for irrigation and human usage comes from
 - a. monsoonal rain storms.
 - b. snowmelt in the Sierra Nevada mountain range.
 - c. the Colorado River.
 - d. desalination of ocean water.
4. Stream flow measures
 - a. the volume of water that passes a given point in one second.
 - b. how many species of fish can be found in a given area of a stream.
 - c. the amount of trash that flows into the watershed.
 - d. how fast water is moving at a given point in a stream.
5. The amount of water stored in snow is called
 - a. snowpack.
 - b. the summer water reserve.
 - c. Sierra cement.
 - d. snow-water equivalent.
6. The atmospheric conditions at a given place and time are called
 - a. climate.
 - b. temperature.
 - c. weather.
 - d. clouds.
7. Most of the CO₂ emitted into the atmosphere is due to
 - a. natural processes.
 - b. burning of fossil fuels.
 - c. deforestation.
 - d. agriculture industry.
8. Since the industrial revolution, most of the increase in CO₂ concentration in the atmosphere is due to
 - a. natural processes.
 - b. burning of fossil fuels.
 - c. deforestation.
 - d. agriculture industry.
9. If California's average winter temperature continues to warm, what is a potential consequence?
 - a. Mammoth Mountain Ski Area will close.
 - b. Glacial coverage in the Sierra Nevada mountain range will increase.
 - c. Water available during the summer for agriculture in the Central Valley will increase due to winter storms bringing rain instead of snow.
 - d. The snowfall season in the Sierra Nevada mountain range will be shorter, limiting the amount of water available for the rest of California.

Countries with the highest CO ₂ emissions				
Country	CO ₂ emissions per year (10 ⁶ Tons) (2006)	Percentage of global total	Avg. emission per km ² of its land (tons)	CO ₂ emissions per year (Tons per person) (2007)
 China	6,103	21.5%	636	4.9
 United States	5,752	20.2%	597	19.3
 Russia	1,564	5.5%	91	11.6
 India	1,510	5.3%	459	1.4
 Japan	1,293	4.6%	3421	9.8
 Germany	805	2.8%	2254	9.6
 United Kingdom	568	2.0%	2338	8.9
 Canada	544	1.9%	54	16.5
 South Korea	475	1.7%	4758	10.5
 Italy	474	1.7%	1573	7.7

10. According to the chart above, the country with the highest CO₂ emissions per km² of land area is
- United States
 - China
 - South Korea
 - United Kingdom
11. According to the chart above, the country with the highest total CO₂ emissions is
- United States
 - China
 - South Korea
 - United Kingdom
12. According to the chart above, the country with the highest CO₂ emissions per person is
- United States
 - China
 - South Korea
 - United Kingdom
13. What is one possible effect of local warming on migration patterns?
- Migrating animals will begin their migration earlier in the spring.
 - Migrating animals will become extinct.
 - Migrating animals will move to lower elevations during the summer where the temperature is warmer.
 - Migrating animals will stop their migration altogether.