

Name: _____

DIFFERENCES IN CLIMATE AND WEATHER

How are weather and climate different?



Part A.

Answer the multiple choice questions below.

1. Weather is:

- a. The short term conditions of the atmosphere (can change in hours or minutes)
- b. Air pressure that doesn't change
- c. What a specific place is like over many years
- d. The same as a season.

2. Climate is:

- a. A method scientists used many years ago, but do not anymore
- b. Something that can change very quickly
- c. Average weather patterns of a specific place over a long period of time (many years)
- d. A formula that only includes temperature

3. Which of the following is not an example of climate?

- a. A dry desert region that may have hot temperatures in the day, cold temperatures at night, and very little rainfall
- b. A chilly fall day with a lot of thunderstorms
- c. A region with long cold winters and short cool summers
- d. An area with cool, mild winters and warm dry summers

4. Weather is a combination of all of the following, except:

- a. Temperature
- b. Precipitation
- c. Air pressure
- d. Wind
- e. Mass

5. Which of the following best describes the difference between climates different and seasons?

- a. Climates and seasons are the same.
- b. Seasons are the four different parts of the year (Winter, Summer, Fall, Spring) while climates are weather patterns observed over time in certain places.
- c. Seasons can have extreme temperatures but climates always have mild temperatures.
- d. Climates are four parts of the year and seasons are changes in air pressure that can quickly change.

Part B.

Look at each word or phrase. On the line, write C if it is an example of climate and a W if it is an example of weather.

- 1. A windy, rainy day _____
- 2. Temperate or moderate region _____
- 3. A sunny and hot day _____
- 4. Polar region _____
- 5. Heavy sleet _____
- 6. Light rain _____
- 7. Windy and cloudy _____
- 8. Continental region _____
- 9. Foggy and chilly _____
- 10. Dry region _____
- 11. Tropical region _____

Part C.

Name which climate matches the description.

1. Has four distinct seasons with varying temperatures. Winters may be cool or cold and summers may be warm or hot - temperatures are not usually extreme.

2. Is very cold for most of the year, with short, cool summers; it may be on tundra.

3. May include regions that are warm and wet or warm and wet and warm and dry. They may have a lot of rainfall.

4. A desert area that has very little rainfall. Temperatures may be very hot during the day and cold at night.

5. An area that is usually dry and has very cold winters and very hot summers.



ANSWER GUIDE



Part A.

1. A
2. C
3. B
4. E
5. B

Part B.

1. W
2. C
3. W
4. C
5. W
6. W
7. W
8. C
9. W
10. C
11. C

Part C.

1. Temperate or Moderate
2. Polar
3. Tropical
4. Dry (Arid)
5. Continental