

BE ALWAYS ONE STEP AHEAD WITH EXAM SOLUTIONS

Class: K4

Subject: Social Studies

(practice worksheets)

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Class: K4

Subject: Social Studies

Topic: Climate, Weather and Seasons

Chapter 3- Climate, Weather and Seasons

Q: Circle the correct option

1. Climate refers to:

- a. Daily temperature
- b. Average weather conditions over a long period
- c. Rainfall during one season
- d. Study of the earth's layers

2. Which of these affects' climate?

- a. Soil type b. Altitude c. Population d. Rivers

3. The polar climate is located:

- a. Near the equator b. Between the Tropics
- c. Near the poles d. Below the Arctic Circle

4. Temperate climates are found:

- a. Between the Tropics and the Polar regions
- b. Near the poles
- c. Between the Tropic of Cancer and the arctic circle
- d. At the equator

5. The hottest climate zone is:

- a. Polar b. Temperate c. Tropical d. Equatorial

6. The equator divides the earth into:

- a. Tropics b. Hemispheres c. Seasons d. Climates

7. The Tropic of Capricorn lies:

- a. Above the equator b. Below the equator
- c. At the poles d. Near the Arctic Circle

8. Which tool is used to measure temperature?

- a. Rain gauge b. Thermometer
- c. Anemometer d. Barometer

9. Meteorology is the study of:

- a. Weather b. Rocks c. Plants d. Soil

10. Summer in Pakistan starts in:

- a. December b. April c. June d. August

Q: Fill in the Blanks with the correct option.

1. The _____ divides the earth into northern and southern hemispheres.
2. Climate is the _____ weather condition over a long period of time.
3. The tropical climate is _____ throughout the year.
4. An anemometer is used to measure _____.
5. Rain is measured in _____.
6. The coldest season in Pakistan is _____.
7. The shedding of leaves happens in the _____ season.

8. The _____ region experiences the hottest climate.

9. The Tropic of _____ lies above the equator

Answer the following questions.

1. What is the difference between climate and weather?

2. Define the tropical climate.

3. Name two tools used in meteorology.

4. When does summer begin in Pakistan?

5. What does a rain gauge measure?

6. Why is the temperate climate different from the tropical climate?

7. Describe the autumn season.

8. What is the role of meteorologists?

Answer the following questions in detail

1. Explain the three types of climates with examples.

2. Discuss the seasons in Pakistan and their characteristics.

3. Why does the tropical region not experience distinct seasons?

Question:








3. Look at the map and describe the weather in each city:



- 1) The weather in Miami is _____.
- 2) The weather in Denver is _____.
- 3) The weather in Chicago is _____.
- 4) The weather in Las Vegas is _____.
- 5) The weather in Dallas is _____.
- 6) The weather in Sacramento is _____.
- 7) The weather in Atlanta is _____.
- 8) The weather in Seattle is _____.
- 9) The weather in Boston is _____.

Question:

Use the weather forecast to answer the questions.

<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Sun</u>
						
sunny	sunny	partly cloudy	cloudy and windy	rainy and windy	partly cloudy	sunny
78	74	68	61	53	65	72

1. What will the temperature be on Monday?

2. Which day will be the coldest? _____
3. Which day will be the warmest? _____
4. What would you wear on Tuesday? _____
5. What would you wear on Saturday? _____
6. If you have an outing to the park planned for Saturday, do you think you will go? Why or why not? _____
7. Which day would be best to fly a kite? Why?

Question:

Write each statement in the Venn diagram.

short term

temperature

reported as a forecast

can change very slowly

can be shown on a map

in one place

daily conditions

long term

precipitation

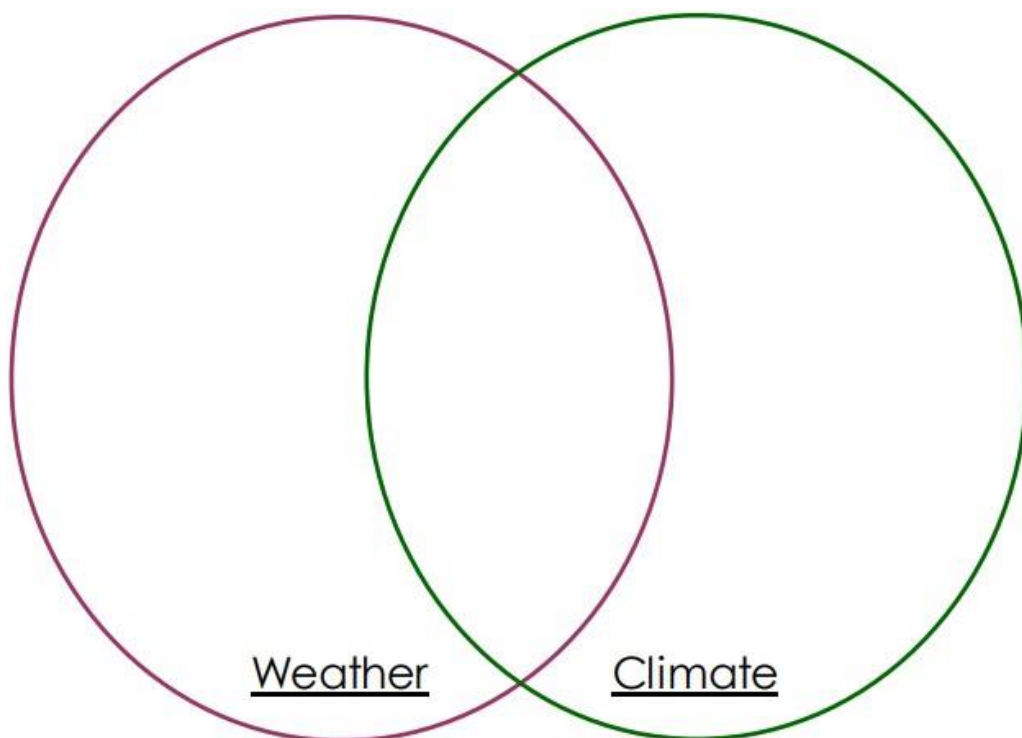
reported as averages

changes quickly

you can find patterns in it

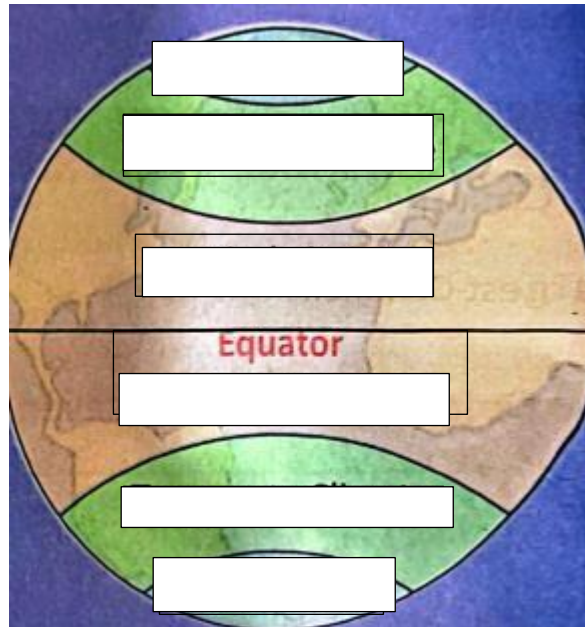
over a large area

average conditions



Question:

Label the general types of climates.



Climate -Answer Key

MCQS

- 1) b
- 2) b
- 3) c
- 4) c
- 5) c
- 6) b
- 7) b
- 8) b
- 9) a
- 10) b

Fill in the Blanks

1. equator
2. average
3. hot
4. wind speed
5. millimeters
6. winter
7. autumn
8. tropical
9. Cancer

Short Questions

1. **What is the difference between climate and weather?**

Climate is the average weather condition of an area over a long period of time, while weather refers to the day-to-day atmospheric conditions such as temperature, rainfall, and wind.

2. **Define the tropical climate.**

The tropical climate is the hottest climate zone located between the Tropic of Cancer and the Tropic of Capricorn. This area does not experience distinct seasons because the sun is always high in the sky.

3. **Name two tools used in meteorology.**

- Thermometer (measures temperature)
- Rain gauge (measures rainfall)

4. **When does summer begin in Pakistan?**

Summer in Pakistan begins in April and lasts till June. It is usually followed by the monsoon or rainfall period in July and August..

5. **What does a rain gauge measure?**

A rain gauge measures the amount of rainfall in a particular area. It is measured in millimeters.

6. **Why is the temperate climate different from the tropical climate?**

The temperate climate has moderate weather with distinct seasons and good rainfall throughout the year, whereas the tropical climate is consistently hot without distinct seasons.

7. **Describe the autumn season.**

Autumn is the season when the shedding of leaves begins. It occurs from September to November.

8. **What is the role of meteorologists?**

Meteorologists study weather and provide forecasts about present and future atmospheric conditions. They use instruments like thermometers, rain gauges, and anemometers.

Long Questions

1. **Explain the three types of climates with examples.**
 - o **Polar Climate:** Found near the poles, it is extremely cold with ice and snow throughout the year. Example: Antarctica and the Arctic.
 - o **Temperate Climate:** Found between the Tropics and the Polar regions, it has moderate weather with good rainfall and distinct seasons. Example: Central Europe and parts of North America.
 - o **Tropical Climate:** Found between the Tropic of Cancer and the Tropic of Capricorn, it is hot throughout the year and does not have distinct seasons. Example: Amazon rainforest and equatorial Africa.
2. **Discuss the seasons in Pakistan and their characteristics.**
 - o **Summer:** The hottest season starts in April and lasts till June. It is often accompanied by monsoons in July and August.
 - o **Autumn:** Leaves begin to shed from September to November.
 - o **Winter:** The coldest season begins in December and lasts till February.
 - o **Spring:** A season of blooming flowers, starting in March and lasting till April.
3. **Why does the tropical region not experience distinct seasons?**

The tropical region is located between the Tropic of Cancer and the Tropic of Capricorn, where the sun remains high in the sky throughout the year. This consistent exposure to sunlight results in uniformly warm temperatures and prevents distinct seasonal changes.

Picture Question

- a. The weather in **Miami** is **sunny**.
- b. The weather in **Denver** is **snowy**.
- c. The weather in **Chicago** is **cloudy**.
- d. The weather in **Las Vegas** is **partly sunny**.
- e. The weather in **Dallas** is **hot and sunny**.
- f. The weather in **Sacramento** is **rainy**.
- g. The weather in **Atlanta** is **stormy**.
- h. The weather in **Seattle** is **rainy**.
- i. The weather in **Boston** is **sunny**.

What will the temperature be on Monday? 78 degrees

Which day will be the coldest? Friday

Which day will be the warmest? Monday

What would you wear on Tuesday? Shirt and shorts

What would you wear on Saturday? sweatshirt

If you have an outing to the park planned for Saturday, do you think you will go? Why or why not? Yes.

Because weather is cool and it's not too warm.

Which day would be best to fly a kite? Thursday

Why? The kite will fly better on a windy day.

