

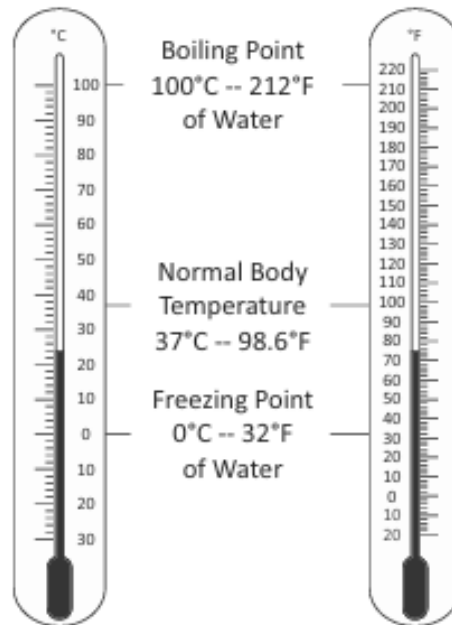
What is Temperature?

Understanding the Topic

- Temperature tells us how hot or cold something is.
- It is measured using a device called a thermometer.

Units of Temperature

- Degree Celsius ($^{\circ}\text{C}$) – commonly used in India and many other countries.
- Degree Fahrenheit ($^{\circ}\text{F}$) – used in some countries like the USA.



Reading a Thermometer

- Look at the level of the red or silver line.
- Read the number where the line ends.
- Always read the thermometer at eye level for accuracy.

Examples of Temperatures

- Freezing point of water = 0°C
- Boiling point of water = 100°C
- Normal human body temperature = 37°C

Types of Thermometers

- **Clinical thermometer** – used to check body temperature
- **Room thermometer** – shows room temperature
- **Laboratory thermometer** – used in science labs

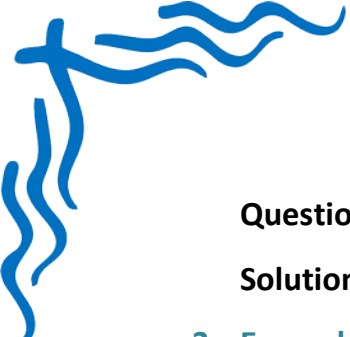
Examples with Solutions

1. Example – Basic Reading (Easy)

Question: What does the thermometer show if the line stops at 30.

Solution: Temperature = 30°C

2. Example – Comparing Temperatures (Easy)



Question: Which is hotter – 20°C or 35°C

Solution: 35°C is hotter

3. Example – Body Temperature (Moderate)

Question: If a person has a temperature of 39°C, is it normal.

Solution: Normal is 37°C, so 39°C means fever

4. Example – Daily Use (Moderate)

Question: If the outside temperature is 10°C, what type of clothes should you wear.

Solution: Warm clothes like sweater or jacket

5. Example – Boiling Point (Moderate)

Question: Water starts boiling at 100°C. If the thermometer shows 95°C, has it started boiling.

Solution: No, boiling starts at 100°C

Summary Points

- Temperature shows how hot or cold something is.
- Measured using a thermometer.
- Unit of temperature is degree Celsius (°C).
- Water freezes at 0°C and boils at 100°C.
- 37°C is normal human body temperature.
- Different thermometers are used for body, room, and lab.
- Reading the thermometer correctly is important.
- Knowing temperature helps in health, cooking, and weather.
- Higher temperature = hotter, lower temperature = colder.
- Practice reading thermometer pictures to improve understanding.