

classmate

Date _____

Page _____

40 The gaps left between successive rails on a railway track, the reason is that the rails expand in summer. The gap is provided to allow for this expansion. If no gap is left, the expansion in summer will cause the rails to bend sideways. That will result in train accidents.



Homework

- 1. What do you understand by thermal expansion of a substance.
- 2. Why do telephones wires sag in summer?
- 3. Iron rims are heated before they are fixed on the wooden wheels. Explain the reason.
- 4. Why are gaps left between successive rails on a railway track.

Answers

- 1. The expansion of a substance on heating is called thermal expansion.
- 2. The telephone wires will sag in summer due to expansion while putting up the wires between the pole care is taken care in winter they are kept tight so that they may not sag too much.
- 3. The wooden wheels of a bullock-cart are fitted with iron ~~tyres~~ tyres. To ensure a tight fit, the tyre is made slightly smaller in diameter than the wheel. The tyre is first heated due which it expands. The heated tyre is then fitted on the wheel. When the tyre cools, it contracts and makes a tight fit on the wheels.