

# Textbook questions Homework I

**Instructions for students:** Follow your teacher's instruction.  
Also, you can attempt this test online and see your result.



[Solve online](#)

## 1. Choose the appropriate answer (4 m.)

1. When an object is heated, the molecules that make up the object

- A) become lighter
- B) lose energy
- C) begin to move faster
- D) become heavier

2. The unit of heat is

- A) Newton
- B) Joule
- C) Volt
- D) Celsius

3. One litre of water at  $30^{\circ}\text{C}$  is mixed with one litre of water at  $50^{\circ}\text{C}$ . The temperature of the mixture will be

- A)  $80^{\circ}\text{C}$
- B) around  $40^{\circ}\text{C}$
- C) More than  $50^{\circ}\text{C}$  but less than  $80^{\circ}\text{C}$
- D)  $20^{\circ}\text{C}$

4. An iron ball at  $50^{\circ}\text{C}$  is dropped in a mug containing water at  $50^{\circ}\text{C}$ . The heat will

- B) not flow from iron ball to water or from water to iron ball
- C) flow from water to iron ball
- D) increase the temperature of both
- E) flow from iron ball to water



[View solution](#)

**2. Fill in the blanks (7 m.)**

|                    |                    |                 |
|--------------------|--------------------|-----------------|
| <b>expand</b>      | <b>Celsius</b>     | <b>Kelvin</b>   |
| <b>equilibrium</b> | <b>temperature</b> | <b>contract</b> |
| <b>contact</b>     | <b>Fahrenheit</b>  | <b>Hot</b>      |

heat                      **Cold**                      **inequality**

1. Heat flows from a                      body to                      body.
2. The hotness of the object is determined by its                      .
3. The SI unit of temperature is                      .
4. Solids                      on heating and                      on cooling.
5. Two bodies are said to be in the state of thermal                      if there is no transfer of heat taking place.



[View solution](#)

**3. True or False. If False, give the correct statement I (10 m.)**

1. Heat is a kind of energy that flows from a hot body to a cold body.
  - A) False
  - B) True
  - A) Heat is a kind of energy that flows from a hot body to a cold body
  - B) Heat is a kind of energy that flows from a cold body to a hot body
2. Steam is formed when heat is released from water.
  - A) True
  - B) False
  - C) Steam is formed when heat is added to water
  - D) Steam is formed when heat is released from water
3. Thermal expansion is always a nuisance.
  - A) True
  - B) False
  - A) Thermal expansion is always beneficial
  - B) Thermal expansion is always a nuisance



[View solution](#)