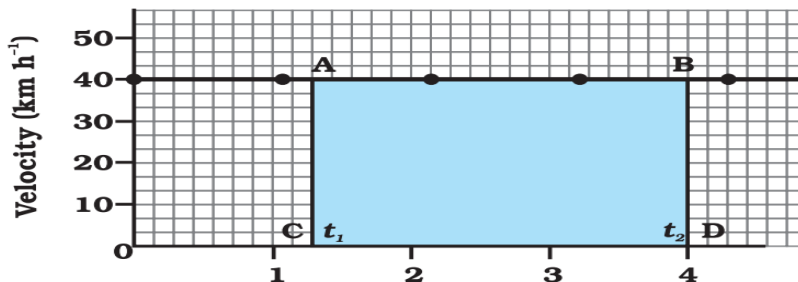


- On increasing the temperature, particles moves faster. This is due to:
  - Increase in kinetic energy of particles.
  - Decrease in kinetic energy of particles.
  - Increase in pressure.
  - Decrease in pressure
- Pewter is an alloy of:
  - Copper and Silver
  - Tin and Copper
  - Zinc and Copper
  - Tin and zinc
- Which of the following is the formula for aluminum oxide?
  - $Al_3O_2$
  - $Al_2O_3$
  - $AlO$
  - $d.Al_2O$
- Atoms of different elements that have different atomic numbers but have same mass number are known as:
  - Isobars
  - Isotopes
  - Isotones
  - Isotherm
- Who discovered Cell and Nucleus?
  - Robert Hooke and Robert Brown respectively
  - Robert Brown and Robert Hooke respectively
  - Leeuwenhoek and Purkinje respectively.
  - Schleiden and Schwann respectively.
- The flexibility of plant is due to the presence of which tissue?
  - Collenchyma
  - Xylem
  - Sclerenchyma
  - Parenchyma
- Blue-green algae or cyanobacteria, and mycoplasma belong to which category of kingdom:
  - Monera
  - Plantae
  - Protista
  - Fungi
- Calculate the distance travelled by a school bus from the following graph:



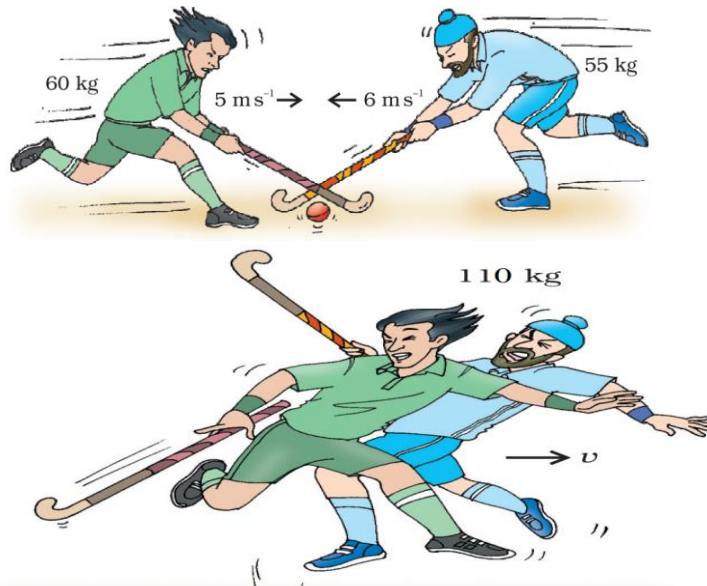
- $40 (t_1)$
- $40 (t_2)$
- $40 (t_2 - t_1)$
- $40 (t_1 - t_2)$

- What will be direction of the friction exerted by road on the car?



- From right to left ( $\leftarrow$ )
- Vertically downwards ( $\downarrow$ )
- From left to right ( $\rightarrow$ )
- Vertically upwards ( $\uparrow$ )

10. Calculate the velocity after the collision:



- (A) 11.5                      (B) 16                      (C) 12.6                      (D) 0.27

11. A car falls off a ledge and drops to the ground in 1.6 s. ( $g = 10 \text{ m s}^{-2}$ ). Calculate the speed on striking the ground.

- (A) 10                      (B) 160                      (C) 16                      (D) 20

12. Calculate kinetic energy if a body of mass 15 kg moving with a uniform velocity of  $4 \text{ m s}^{-1}$ .

- (A) 60                      (B) 1200                      (C) 120                      (D) 12

13. The following graph represents which nature of sound.



- (A) Low pitched sound                      (B) High pitched sound  
(C) faint sound                      (D) Soft sound

14. Bacteria responsible for peptic ulcer is:

- (A) Leishmania                      (B) Staphylococci                      (C) Helicobacter pylori                      (D) Trypanosoma

15. The temperature at moon rages from:

- (A)  $-19^\circ \text{ C}$  to  $11^\circ \text{ C}$                       (B)  $-190^\circ \text{ C}$  to  $110^\circ \text{ C}$   
(C)  $-10^\circ \text{ C}$  to  $110^\circ \text{ C}$                       (D)  $-38^\circ \text{ C}$  to  $40^\circ \text{ C}$

16. In which of the following form do plants absorb  $\text{N}_2$

- (A)  $\text{NO}_2^-$                       (B)  $\text{NO}_3^-$                       (C)  $\text{NH}_4^+$                       (D) All of these