$$
6^{\text {th }} \text { Class }
$$

> Mathematics: Ans: (D)


Physics: Ans: (A)
Chemistry: Ans: (A)
Biology: Ans: (D)

## $7^{\text {th }}$ Class

> Mathematics: Ans : (B)
Let age of Ashima $=x$ years, Sunita $=2 x$
Now Ashima $=x-6$

$$
\text { Sunita }=2 x+4
$$

$$
\begin{aligned}
& (x-6)=2 x+4 \\
& 4 x-24=2 x+4 \\
& 2 x=28 \Rightarrow x=14
\end{aligned}
$$

Ashima $=14$, Sunita $=28$
$\therefore 2$ years ago :Ashima $=12$, Sunita $=26$
Physics: Ans: (C)
$>$ Chemistry: Ans: (C)
Biology: Ans: (D)
$8^{\text {th }}$ class
> Mathematics: Ans: (C)
$\frac{A}{C}=\frac{A}{B} \times \frac{B}{C}=\frac{3}{2} \times \frac{5}{4}=\frac{15}{8} \Rightarrow A: C=15: 8$
Physics: Ans : (B)
$>$ Chemistry: Ans: (B)
Strength $=$ Normality ${ }^{\prime}$ Eq. mass $\left.=\mathrm{A}\right) 5 \times 17$ (eq. mass of $\left.\mathrm{H}_{2} \mathrm{O}_{2}\right)=25.5 \mathrm{gL}^{-1}$
Biology: Ans: (A)

## $9^{\text {th }}$ Class

$>$ Mathematics : Ans: (B)
Produce AB to meet EC at F .
Now, $\mathrm{AF} \| \mathrm{CD}$ CF is the transversal.
$\because \angle \mathrm{BFC}=\angle \mathrm{FCD}=120^{\circ}$ [alternate angles]
Now, $\angle \mathrm{BFC}+\angle \mathrm{EFB}=180^{\circ}$ [linear pair]
$\Rightarrow 120^{\circ}+\angle \mathrm{EFB}=180^{\circ} \Rightarrow \angle \mathrm{EFB}=\left(180^{\circ}-120^{\circ}\right)=60^{\circ}$.
Also, $\angle \mathrm{ABE}+\angle \mathrm{EBF}=180^{\circ}$ [Linear pair]
$\Rightarrow 110^{\circ}+\angle \mathrm{EBF}=180^{\circ} \Rightarrow \angle \mathrm{EBF}=\left(180^{\circ}-110^{\circ}\right)=70^{\circ}$.
Now, $\angle \mathrm{FEB}+\angle \mathrm{EBF}+\angle \mathrm{EFB}=180^{\circ}$ [angles of a triangle]
$\Rightarrow \mathrm{x}+70+60=180 \Rightarrow \mathrm{x}=(180-130)=50$. Hence, $\mathrm{x}=50$.

Physics: Ans: (B)

## Chemistry: Ans: (A)

Biology: Ans: (C)
$10^{\text {th }}$ class
> Mathematics: Ans: (A)
Let those friends were having Rs x and y with them.
Using the information given in the question, we obtain
$x+100=2(y-100)$
$x+100=2 y-200$
$x-2 y=-300$
and, $6(x-10)=(y+10)$
$6 x-60=y+10$
$6 x-y=70$
Multiplying equation (ii) by 2 , we obtain
$12 \mathrm{x}-2 \mathrm{y}=140$
(iii)

Subtracting equation (i) from equation (iii), we obtain
$11 \mathrm{x}=140+300$
$\mathrm{x}=40$
Using this in equation (i), we obtain
$40-2 y=-300$
$2 y=340$
$y=170$
Therefore, those friends had Rs 40 and Rs 170 with them respectively.
$>$ Physics: Ans: (C)
$>$ Chemistry: Ans: (C)
$>$ Biology: Ans: (D)
$>$ Reasoning : Ans: (A)
Some students can be tennis fans or cricket players. Even some tennis fans can be cricket players.


