Percentage Ex 12.2 Q25

Answer :

Let Shalu's income be Rs x.

$\therefore$ Shikha's income $=$ Rs $\left(x+\frac{60x}{100}\right)=$ Rs $\frac{160x}{100}=$ Rs $\frac{16x}{10}$

Difference in the incomes of Shikha and Shalu $=\frac{16x}{10}-x=\frac{16x-10x}{10}=$ Rs $\frac{6x}{10}$

Percentage of the difference in the incomes of Shikha and Shalu to that of Shikha's income $=\frac{\frac{6x}{10}}{\frac{16x}{10}}\times 100=\frac{600}{16}=37.5\%$

$\therefore$ The income of Shalu is less than that of Shikha by 37.5%.

Percentage Ex 12.2 Q26

Answer :

Let x, y *and* z be the amounts received by the first, second and the third person, respectively.

We have :

$x=50\%$ of y

$=\frac{50}{100}y=\frac{1}{2}y$

$\therefore\ y=2x$

Again, $y=50\%$ of z

$=\frac{1}{2}z$

$\therefore\ z=2y$

$=2(2x)$

$=4x$

Also, $x+y+z=3500$

Substituting the values of z *and* y, we get :

$x+2x+4x=3500$

$\Rightarrow\ 7x=3500$

$\Rightarrow\ x=500$

$\therefore\ y=2x=2(500)$

$=1000$

$\therefore\ z=4x=4(500)$

$=2000$

Thus, the amounts received by the first, second and the third person are Rs 500, Rs 1000 and Rs 2000, respectively.

Percentage Ex 12.2 Q27

Answer :

Let the original price of the objec

According to the question, we hav

$$20\%\text{ of }x+x=2000$$

$$\Rightarrow \frac{20x}{100}+x=2000$$

$$\Rightarrow \frac{120}{100}x=2000$$

$$\Rightarrow x=\frac{200000}{120}$$

$$\Rightarrow x=1666.67$$

********** END **********