## Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.3 Q10

**Answer :**

Let the reduced price, excluding VAT, of the radio be Rs $x$.
Then,
VAT = 7% of Rs. $x$ = Rs. $\frac{7x}{100}$
So, SP of the radio = Rs. $\left(x + \frac{7x}{100}\right)$ = Rs. $\frac{107x}{100}$
But, SP = Rs. 2568
So, $\frac{107x}{100} = 2568$
$x$ = Rs. 2400
Hence, the reduction needed in the price of the radio = Rs. $(2568 - 2400)$ = Rs. 16

## Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.3 Q11

**Answer :**

*Given*,
CP of 2 pair of shoes = Rs. $800 \times 2$ = Rs. 1600
Rate of VAT = 5%
So, VAT = 5% of Rs. $1600 = \frac{5}{100} \times 1600$ = Rs. 80.
*Therefore, the* amount *Rajat needs to* pay for 2 pair of shoes = Rs. $(1600 + 80)$ = Rs. 1680
*Again*,
CP of 1 sewing machine = Rs. 1500
Rate of VAT = 6%
So, VAT = 6% of Rs. $1500 = \frac{6}{100} \times 1500$ = Rs. 90.
*Therefore, the* amount *Rajat needs to* pay for 1 sewing machine = Rs. $(1500 + 90)$ = Rs. 1590
*Given*,
CP of 2 *tea* − sets = Rs. $650 \times 2$ = Rs. 1300
Rate of VAT = 4%
So, VAT = 4% of Rs. $1300 = \frac{4}{100} \times 1300$ = Rs. 52
*Therefore, the* amount *Rajat needs to* pay for 2 tea − sets = Rs. $(1300 + 52)$ = Rs. 1352
Thus, *the* total amount *Rajat needs* to pay = Rs. $(1680 + 1590 + 1352)$ = Rs. 4622

## Profit, Loss, Discount, Value Added Tax (VAT) Ex 13.3 Q12

**Answer :**

Let the sale price of the motorcycle be Rs $x$.
Cost including VAT = 10% of $x$ + $x$

$$17600 = \frac{10}{100} \times x + x$$
$$17600 = 0.10x + x$$
$$1.10x = 17600$$
$$x = \frac{17600}{1.10}$$
$$= 16000$$

Thus, the sale price of the motorcycle is Rs 16000.

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