Exercise 10C

Price of the TV after deducting the commission = Rs (x − 10% of x)

$$= \text{Rs}\left(x - \frac{10}{100}x\right) = \text{Rs}\left(\frac{100x - 10x}{100}\right) = \text{Rs}\left(\frac{9x}{10}\right)$$

However, price of the TV after deducting the commission = Rs 18000

Then, Rs $\left(\frac{9x}{10}\right)$ = Rs 18000

$\therefore x = \left(\frac{18000 \times 10}{9}\right)$ = Rs (2000 × 10) = Rs 20000

Hence, the gross value of the TV is Rs 20,000

Q11

Answer :

(b) Rs. 16000

Let us assume that the original salary of the man is Rs x.

Increase in it = 25%

Value increased in the salary = 25% of Rs. x

$$= \text{Rs}\left(\frac{25}{100} \times x\right) = \text{Rs}\left(\frac{x}{4}\right)$$

Salary after increment= Rs $\left(x + \frac{x}{4}\right)$ = Rs $\left(\frac{5x}{4}\right)$

However, increased salary = Rs 20000

Then, Rs $\left(\frac{5x}{4}\right)$ = Rs 20000

$\therefore$ x = Rs $\left(\frac{20000 \times 4}{5}\right)$ = Rs 16000

Hence, the original salary of the man is Rs 16,000

Q12

Answer :

(c) 560

Suppose that the number of examinees is 100.

Number of passed examinees = 95

Number of failed examinees = (100 − 95) = 5

Total number of examinees if 5 of them failed = 100

Total number of examinees if 28 of them failed = $\left(\frac{100}{5} \times 28\right) = (20 \times 28) = 560$

Hence, there were 560 examinees.

Q13

Answer :

(c) 700

Suppose that the fruit seller initially had 100 apples.

Number of apples sold = 40

∴ Number of remaining apples = (100 − 40) = 60

Initial number of apples if 60 of them are remaining = 100

Initial number of apples if 420 of them are remaining = $\left(\frac{100}{60} \times 420\right)$ = 700

Hence, the fruit seller originally had 700 apples with him.

Q14

Answer :

(c) Rs. 25250

Present value of the machine = Rs 25000

Decrease in its value after 1 year = 10% of Rs 25000

= Rs $\left(\frac{10}{100} \times 25000\right)$ = Rs 2500

Depreciated value after 1 year = Rs (25000 − 2500) = Rs 22500

Hence, the value of the machine after 1 year will be Rs 22500

Q15

Answer :

(c) 75

Let the required number be *x*. Then, we have:

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