

Exercise 10C

Price of the TV after deducting the commission = Rs
$$(x - 10\% \text{ of } x)$$

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

$$= \operatorname{Rs}\left(\frac{25}{100} \times x\right) = \operatorname{Rs}\left(\frac{x}{4}\right)$$
 Salary after increment= $\operatorname{Rs}\left(x + \frac{x}{4}\right) = \operatorname{Rs}\left(\frac{5x}{4}\right)$

However, increased salary = Rs 20000

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

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